Catalog 2020-2021





dacc.nmsu.edu/admissions/











TABLE OF CONTENTS

oña Ana Academic Catalog	6
General Information	6
Welcome Bienvenidos	6
Basic Policies and General Information	7
Academic Calendar and Contact Information	8
Institutional and Program Accreditations	9
About the Community College	. 11
Admissions	12
Dual Credit Program	. 14
Aggie Pathway	. 15
Academic Advising and Registration	. 15
Tuition and Fees	. 18
Financial Aid	20
Veteran Students	. 22
Distance Education	. 22
Student Services Offered at DACC	23
Student Services on the NMSU Las Cruces (main) Campus	
DACC Locations	. 26
NMSU System Academic Regulations	. 27
Graduation Requirements	50
Developmental Studies, College Studies and General Education	
General Education & Transfer Options	. 52
General Education	52
Applying DACC Credit Towards Bachelor's Degree Programs	56
Common Course Numbering Crosswalk	
Academic and Career Programs	
Aerospace Technology	
Aerospace Technology - Associate of Applied Science	
Aerospace Technology - Certificate of Completion	
Allied Healthcare Assistant	
Nursing Assistant - Certificate of Completion	
Medical Assisting - Associate of Applied Science	
Patient Care Technician - Certificate of Completion	
Phlebotomist Basic - Course Completion Certificate	
Electrocardiogram Technician - Course Completion	
Certificate	110
Pre-Surgical Technician Program	110
Associate in General Studies	111

ASS	sociate of Arts	112
٩ss	sociate of Science	115
٩ut	omation and Manufacturing Technology	119
	Automation and Manufacturing Technology - Associate of Applied Science	f 120
	Automation and Manufacturing - Certificate of Completio	n 122
	Basic Manufacturing and Bridge - Certificate of Completic	on 122
٩ut	omotive Technology	123
	Automotive Technology - Associate of Applied Science	124
	Automotive Technology - Certificate of Completion	126
3ui	Iding Construction Technology	127
	Building Construction Technology - Associate of Applied Science	129
	Building Construction Technology - Certificate of Comple	tion 130
	Building Construction Technology - Basic Residential Wir Certificate of Completion	ing 131
	Building Construction Technology - Basic Solar Certificate Completion	e of 132
	Building Construction Technology - Energy Auditing Certificate of Completion	132
	Building Construction Technology - Plumbing Certificate Completion	of 133
Bus	siness Management	133
	Advertising Representative - Certificate of Achievement	136
	Business Fundamentals - Certificate of Completion	136
	General Business Management - Certificate of Completio	n 137
	Business Management - Associate of Business Occupation	ons 138
	Business Management (Finance & Banking Services) - Associate of Business Occupations	140
	Business Management (General Management) - Associat Business Occupations	
	Business Management (Retail Marketing & Sales) - Assoc of Business Occupations	ciate 142
Cor	mputer and Information Technology	144
	Computer Technology (IT Specialist) - Associate of Applie Science	
	Computer Technology (Networking) - Associate of Applie Science	d 152
	Computer Technology (Programming) - Associate of Appl Science	
	Cybersecurity - Associate of Applied Science	157

Cisco Networking - Certificate of Completion 159	Architectural Technology - Associate of Applied Science
Computer Information Systems - Certificate of Completion	Civil/Curvey Technology Associate of Applied Science
Computer Information Technology - Cortificate of Completion	Civil/Survey Technology - Associate of Applied Science
Computer Information Technology - Certificate of Completion	Mechanical Drafting and Solid Modeling - Associate of
Cybersecurity - Certificate of Completion	Applied Science
Oracle Programming - Certificate of Completion 162	Pre-Architecture - Associate of Applied Science 213
Programming - Certificate of Completion 162	Architectural Technology - Certificate of Completion 215
System Administration - Certificate of Completion 163	Civil/Survey Technology - Certificate of Completion 215
Creative Media Technology	Drafting and Graphics Technology - Certificate of Completion
Digital Film - Associate of Applied Science 169	216
Digital Graphics Technology - Associate of Applied Science	Geographical Information Systems - Certificate of Completion
	Mechanical Drafting and Solid Modeling - Certificate of
Game Development - Associate of Applied Science 172	Completion
Commercial Photography - Certificate of Completion 173	Pre-Architecture - Certificate of Completion 218
Creative Media - Certificate of Achievement 173	Early Childhood Education
Digital Audio - Certificate of Completion	Early Childhood Education - Associate Degree
Digital Graphics - Certificate of Completion	Early Childhood Education - Administrator's Certificate
Digital Video - Certificate of Completion	
Film Crew Training - Certificate of Completion 176	Education
Game Design - Certificate of Completion 176	Education (Elementary Education) - Associate Degree 224
Graphics and Animation - Certificate of Completion 177	Education (Elementary Education - Special Education) - Associate Degree
Web Design - Certificate of Completion	Education (Secondary Language Arts) - Associate Degree
Criminal Justice and Law Enforcement	
Corrections - Associate of Applied Science	Education (Secondary Math) - Associate Degree 230
Criminal Justice - Associate of Criminal Justice	Education (Secondary Science) - Associate Degree 232
Law Enforcement - Associate of Applied Science 184	Education (Secondary Social Studies) - Associate Degree -
Public Safety First Line Supervisor - Certificate of	
Achievement	Electrical Programs
Culinary Arts	Electrical Lineworker - Certificate
Culinary Arts - Associate of Applied Science 188	Electronics Technology
Culinary Arts - Baking & Pastry - Certificate of Completion	Electronics Technology (Biomedical Electronics) - Associate
189	of Applied Science
Culinary Arts - Savory - Certificate of Completion	Electronics Technology (General Electronics) - Associate of Applied Science
Dental Assistant	Biomedical Electronics - Certificate of Completion 243
Dental Assistant - Certificate of Completion	Electronics Technology - Certificate of Completion 244
Dental Hygiene	Emergency Medical Services
Dental Hygiene - Associate of Applied Science	Emergency Medical Services - Associate of Applied Science
Diagnostic Medical Sonography	
Diagnostic Medical Sonography - Associate of Applied Science	EMT - Basic - Certificate of Achievement
Diagnostic Medical Sonography - Certificate of Completion	EMT - Intermediate - Certificate of Achievement 251
	EMT Paramedic - Certificate of Completion 251

First Responder Prehospital - Certificate of Achievement	253	Office Administration Technology - Medical Transcription	
Environmental and Energy Technologies		Pre-Business	
Environmental and Energy Technologies - Associate of		Pre-Business - Associate Degree	
Applied Science	255	Public Health	
Basic Solar - Certificate of Completion	256	Public Health - Associate of Public Health	300
Energy Conservation - Certificate of Completion	257	Community Health Worker - Certificate	. 302
Energy Evaluation - Certificate of Completion	258	Radiologic Technology	
Solar Energy Technology - Certificate of Completion	259	Radiologic Technology - Associate of Applied Science	
Fire Science Technology	259	Computed Tomography - Certificate of Completion	
Fire Science Technology - Associate of Applied Science	000	Respiratory Therapy	
Duris Fin Salara Orași a de Gorandai a	262	Respiratory Therapy - Associate of Applied Science	
Basic Firefighter - Certificate of Completion		Water Technology	. 311
General Engineering		Water Technology - Associate of Water Technology	
General Engineering - Associate of Science		Water Technology - Certificate of Completion	315
Health Information Technology	207	Welding Technology	. 316
Health Information Technology - Associate of Applied Science	268	Welding Technology - Associate of Applied Science	318
Health Information Technology - Certificate of Completio	n	Welding Technology - Certificate of Completion	. 320
	270	Noncredit Programs	. 320
Heating, Ventilation, Air Conditioning and Refrigeration	270	Adult Education	. 320
Heating, Ventilation, Air Conditioning and Refrigeration - Associate of Applied Science	272	Small Business Development Center	. 322
HVAC/R - Certificate of Completion		Workforce Development and Career Readiness	. 322
Residential HVAC - Certificate of Completion		Course Descriptions	. 323
Hospitality and Tourism		A S-ARTS AND SCIENCES	. 326
Hospitality and Tourism (Food & Beverage) - Associate o		ACCT-ACCOUNTING	. 326
Applied Science		ACES-AGRI, CONSUMER & ENV SCIE	. 326
Hospitality and Tourism (Lodging & Tourism) - Associate		AEEC-AGRICULTURAL ECON/ECON	. 326
Applied Science		AERO-AEROSPACE STUDIES	. 327
Hospitality Services Management	280	AERT-AEROSPACE TECHNOLOGY	. 327
Hospitality Services Management - Associate of Applied Science	281	AGRO-AGRONOMY	. 328
Nursing		AHS-ALLIED HEALTH SCIENCE	. 328
Nursing - Associate in Nursing		ANSC-ANIMAL SCIENCE	. 329
Licensed Practical Nurse - Certificate		ANTH-ANTHROPOLOGY	. 330
Office Administration Technology		ARCH-ARCHITECTURE	331
Office Administration Technology (Administrative Assista		ART-ART	. 333
- Associate of Applied Science		ARTH-ART HISTORY	. 333
Office Administration Technology (Bookkeeping Assistar		ARTS-ART STUDIO	. 333
Associate of Applied Science		ASTR-ASTRONOMY	. 335
Office Administration Technology (Medical Office Assista Associate of Applied Science		AUTO-AUTOMOTIVE TECHNOLOGY	. 335
Office Administration Technology - Certificate		AVIM-AVIATION MAINTENANCE	337
Office Administration Technology - Medical Billing Certific		AXED-AGRICULTURAL EXTN EDUC	. 338
		B A-BUSINESS ADMINISTRATION	. 338

BCHE-BIOCHEMISTRY	338	ENGR-ENGINEERING	374
BCIS-BUSINESS COMPUTER SYSTEMS	339	ENTR-ENTREPRENEURSHIP	374
BCT-BUILDING CONSTRUCTION TECH	339	ENVS-ENVIRONMENTAL SCIENCE	375
BFIN-BUSINESS FINANCE	340	EPWS-ETMLGY/PLNT PTHLGY/WD SCI	375
BIOL-BIOLOGY	340	FCSC-FAMILY AND CONSUMER SCIENCES	375
BLAW-BUSINESS LAW	342	FCST-FAMILY AND CHILD STUDIES	375
BLED-BILINGUAL EDUCATION	342	FDMA-FILM & DIGITAL MEDIA ARTS	375
BMGT-BUSINESS MANAGEMENT	342	FIRE-FIRE INVESTIGATION	380
BOT-BUSINESS OFFICE TECHNOLOGY	344	FREN-FRENCH	382
BUSA-BUSINESS ADMINISTRATION	344	FSTE-FOOD SCIENCE & TECHNOLOGY	382
C E-CIVIL ENGINEERING	344	FWCE-FISH,WILDLF,CONSERV ECOL	383
C S-COMPUTER SCIENCE	345	FYEX-FIRST YEAR EXPERIENCE	383
CCDE-DEVELOPMENTAL ENGLISH	346	GENE-GENETICS	384
CCDM-DEVELOPMENTAL MATHEMATICS	346	GEOG-GEOGRAPHY	384
CCDR-DEVELOPMENTAL READING	346	GEOL-GEOLOGY	384
CCDS-DEVELOPMENTAL SKILLS	347	GNDR-WOMEN'S STUDIES	385
CEPY-COUNSELING & EDUCATIONAL PSYCHOLOGY	347	GRMN-GERMAN	385
CHEF-CULINARY ARTS	348	HIST-HISTORY	385
CHEM-CHEMISTRY	349	HIT-HEALTH INFO TECHNOLOGY	386
CHIN-CHINESE	351	HLED-HEALTH EDUCATION	387
CHME-CHEMICAL & MATERIALS ENGR	351	HMSV-HUMAN SERVICES	387
CHSS - COMM HEALTH/SOC SRVCS	351	HNRS-HONORS	387
CJUS-CRIMINAL JUSTICE	352	HORT-HORTICULTURE	389
COMM-COMMUNICATION	352	HOST-HOSPITALITY AND TOURISM	390
CSEC-CYBERSECURITY	352	HRTM-HOTEL/RESTRNT/TOURISM MGT	391
CTEC-CYBER TECHNOLOGY	353	HVAC-HEATING/AC/REFRIGERATION	391
CTFM-CLTHNG/TXTLS/FSHN MRCHDSG	355	I E-INDUSTRIAL ENGINEERING	392
DANC-DANCE	355	INMT - INDUSTRIAL MAINTENANCE	393
DAS-DENTAL ASSISTING	357	INTEGRATED NATURAL SCIENCES	394
DHYG-DENTAL HYGIENE/HYGIENIST	358	JAPN-JAPANESE	394
DMS-DIAGNOSTIC MED SONOGRAPHY	360	JOUR-JOURNALISM	394
DRFT-DRAFTING	362	L SC-LIBRARY SCIENCE	395
E E-ELECTRICAL ENGINEERING	365	LANG-LANGUAGE	396
E T-ENGINEERING TECHNOLOGY	365	LAWE-LAW ENFORCEMENT	396
ECED-EARLY CHILDHOOD EDUCATION	368	LIBR-LIBRARY SCIENCE	397
ECON-ECONOMICS	369	LING-LINGUISTICS	397
EDLT-EDUCATIONAL TECHNOLOGY	369	M E-MECHANICAL ENGINEERING	397
EDUC-EDUCATION	370	M SC-MILITARY SCIENCE	398
ELAD-EDUCATIONAL LEADERSHIP ADMINISTRATION	370	MAT-AUTOMATION & MANUFACTURING	399
ELT - ELECTRONICS TECHNOLOGY	370	MATH-MATHEMATICS	400
ELWK-ELECTRICAL LINEWORKER	372	MGMT-MANAGEMENT	401
ENGL-ENGLISH	372	MKTG-MARKETING	401

MUSC-MUSIC 4 NA - NURSING ASSISTANT 4 NAV-NAVAJO 4 NGEC-NATURAL GAS ENGINE COMP 4	404 405
NAV-NAVAJO4	405
NGEC-NATURAL GAS ENGINE COMP 4	
	405
NURS-NURSING 4	406
NUTR-NUTRITION 4	409
OATS-OFFICE ADMINISTRATION TECHNOLOGY SYSTEMS	100
	409 412
OECS-COMPUTER TECHNOLOGY	
	415
	417
OEGR-DIGITAL GRAPHIC TECH	418
OEGS-GEOGRAPHIC INFO SYS	418
	418
PHED-PHYSICAL EDUCATION	
	419
PHLS-PUBLIC HEALTH SCIENCES4	
PHYS-PHYSICS 4	120
PL-S-PARALEGAL SERVICES 4	122
POLS-POLITICAL SCIENCE 4	123
PORT-PORTUGUESE 4	123
PSYC-PSYCHOLOGY4	123
RADT-RADIOLOGIC TECHNOLOGY 4	123
RESP - RESPIRATORY THERAPY 4	125
RGSC-RANGE SCIENCE4	126
SIGN-SIGN LANGUAGE4	126
SMET-SCIENCE/MATH/ENG/TECH4	126
SOCI-SOCIOLOGY4	126
SOIL-SOIL 4	127
SOWK-SOCIAL WORK4	127
SPAN-SPANISH 4	127
SPED-SPECIAL EDUCATION 4	128
	128
SPMD-SPORTS MEDICINE 4	128
SUR-SURVEYING4	129
SURG-SURGICAL TECHNOLOGY 4	129
TCEN-ENVIRONMENTAL/ENERGY TECH 4	431
THEA-THEATER 4	132
WATR-WATER UTILITIES 4	433
WELD-WELDING TECHNOLOGY 4	134
Student Handbook	435

Student Social Code of Conduct	436
Academic Code of Conduct	445
Grievance Procedures	445
Additional Policies and Procedures	446
Student Complaint Procedure for Texas Residents	452
Constitution of the Student Government Association of DACC	
	452
Governance and Personnel	455
Faculty	456
Application for Admission	456
Policy Statement on Discrimination and Affirmative Action	456
Index	457

DOÑA ANA ACADEMIC CATALOG

Doña Ana Community College 2020-2021 Catalog

Any item in this catalog is subject to modification at any time by proper administrative procedure.

The ultimate responsibility for planning an academic program in compliance with university, community college, college and departmental requirements rests with the student. In addition, the student bears ultimate responsibility for understanding all matters of the Course Catalog.

Catalog effective summer 2020 through spring semester 2028.

General Information

This catalog is the student's guidebook to earning a degree or other academic credential. The catalog contains three important parts: (1) the official listing of NMSU-DACC's academic programs and their requirements, (2) a listing of the courses offered at NMSU-DACC with descriptions and prerequisites, and (3) other information essential for student success including many of the rules and regulations that govern the student's academic journey at NMSU-DACC.

As with any other journey, advance planning is essential. To avoid wrong turns and lost time, each student must chart their own path, with the help of their academic advisors and this guidebook. Each student is responsible for planning an academic program of study in compliance with university, community college, college and departmental requirements as set forth in the Catalog. In addition, each student is obligated to abide by the Academic Rules and Regulations as set forth in the Catalog, as well as the Student Social Code of Conduct, as set forth in the Student Handbook (available through the Dean of Students website).

Upon proper application and payment of fees, students will be awarded academic degrees and designations when the completion of the academic program requirements is verified by the relevant NMSU-DACC academic unit. Degrees and designations may be awarded under any catalog in effect on the date of degree or designation completion, provided that the catalog year is the same or subsequent to the year in which the student was first enrolled.

The academic program requirements of each catalog are effective for a period of eight academic years. This 2020-21 Catalog is effective summer 2020 through spring semester 2028. All other catalog content, including rules, regulations, course descriptions and prerequisites are effective only for the catalog's denoted academic year. While content changes are typically implemented between Catalog years, the catalog does not represent a contract and NMSU-DACC reserves the right to make modifications to the catalog at any time.

Academic programs at the New Mexico State University System are available to all students without regard to age, ancestry, color, disability, gender, national origin, race, religion, sexual orientation or veteran status.

NMSU-DACC is transforming lives through discovery. With the help of your advisors, you can chart your own transformational journey, using this catalog as your guidebook.

This publication focuses primarily on academic matters. Candidates for degrees and certificates may elect to fulfill requirements as outlined in the catalog in effect at the date of initial enrollment (provided the catalog is not more than six years old) or any subsequent catalog in effect during their dates of registration at Doña Ana Community College. Readers should be aware of the following:

- The DACC Catalog is not a complete statement of all procedures, policies, rules, and regulations that might apply to a student in all circumstances. It may be necessary to consult other documents, such as the DACC Student Handbook, as well.
- DACC reserves the right to change at any time and without notice any item contained in this publication, including program offerings and content, course offerings and descriptions, procedures, policies, and regulations.

Welcome | Bienvenidos Welcome to the Community College

DACC is a comprehensive community college offering community members instructional opportunities in career technical education, general education, adult education, continuing education, and workforce development. In addition, DACC's Small Business Development Center offers support to small business owners and managers.

DACC faculty and staff are committed to a responsive, learning-centered environment to assist students in developing the knowledge and skills needed to enter the workforce, to continue on to a bachelors degree, or to achieve professional and personal goals through workforce training and continuing education.

DACC welcomes and supports a diverse student population. Support services include academic advising, financial aid and financial literacy workshops, tutoring support, career services, computer lab access, and assistance for students with physical and learning disabilities.

Please join us! Use this catalog and the DACC website to explore all that DACC has to offer. Visit one of our campuses and then start or continue your educational journey.

Mónica F. Torres, President

Bienvenidos

El Colegio Comunitario Doña Ana se complace en abrir sus puertas a toda la comunidad. La misión de esta institución es ofrecer oportunidades educativas a todos los que deseen enriquecer sus conocimientos.

Estamos trabajando para eliminar todas las barreras en la educación. Ofrecemos cursos completamente gratuitos para aprender inglés como segundo idioma, por medio del programa de Educación para Adultos, ya que todas las clases que se ofrecen en el colegio se imparten en inglés. Si desea información sobre estos cursos, comuníquese al teléfono (575) 527-7540¹.

Para más información sobre el colegio, llame al (575) 527-7500¹.

^l Se habla español.

Basic Policies and General Information

A Note About Career Technical Education Courses

Students planning to pursue a bachelor's degree at New Mexico State University after completing their studies at DACC need to be aware that not all career technical education courses taken at DACC can be used to satisfy degree requirements at NMSU. The number of DACC credits that may be counted toward a bachelor's degree depends on the major selected and any agreements providing for the acceptance of career technical education courses.

Programs already having such agreements are called "articulated" programs, and are listed at <u>Applying DACC Credit Toward Bachelor's Degree Programs</u> (p. 56). It is best for students to consult advisors at both DACC and NMSU early in their associate degree program to insure that the maximum number of credits will apply toward the bachelor's degree program selected.

Tuition Differentials

DACC students enrolling in courses on any other NMSU campus pay the tuition rate in effect at that campus.

Nondiscrimination

It is the policy of Doña Ana Community College not to discriminate on the basis of age, color, disability, gender, national origin, race, religion, sexual orientation, or veteran status in employment or other college-administered programs. This policy is in compliance with Title VII of the Civil Rights Act of 1964, Executive Order 11246 as amended by 11375 and section 504 of the Vocational Rehabilitation Act of 1973, the Americans with Disabilities Act of 1990, the Americans with Disabilities Amendment Act of 2008 (ADAAA), and Title IX of the Educational Amendments of 1972 and subsequent revisions.

Disability Statement. Doña Ana Community College is strongly committed to providing education to all citizens of Doña Ana County. The college's faculty and staff are dedicated to the goal of providing equal access to individuals with disabilities and to the spirit of the Americans with Disabilities Act (ADA) of 1990. The ongoing effort to reduce and remove physical and attitudinal barriers is designed to assist individuals with disabilities to enjoy the college's facilities, programs, and services to the fullest extent. We are dedicated to developing an educational environment free of discrimination.

Policy of Nondiscrimination on the Basis of Disability. Doña Ana Community College does not discriminate on the basis of disability in the admission or access to, or treatment or employment in, its programs or activities.

The ADA coordinator for DACC, located at the East Mesa Campus in DASR 104A, (575) 527-7548, has been designated to oversee compliance with the nondiscrimination requirements contained in Section 35.107 of the Department of Justice Regulations. Information concerning the provisions of the Americans with Disabilities Act, and the rights provided thereunder, are available from the ADA coordinator.

Technical Standards for Admissions

Some programs may require technical standards for admissions and/ or continued program participation. Technical standards may include possessing or acquiring skills or behaviors to complete performancebased tasks. Completion of these tasks may be required for program completion.

Learning Outcomes Assessment

As part of its continuing effort to maintain quality academic programs and to provide strong support services, all DACC programs have established student learning outcomes. DACC/NMSU routinely conducts learning outcomes assessment activities at the classroom, program, and college levels through activities such as general education assessment projects, exit exams, exit interviews, and standardized tests. Students may be required to participate in one or more of these activities. Collegewide essential learning outcomes and program-specific student learning outcomes are published on the DACC Assessment of Student Learning website.

DACC Graduation and Retention Rates

Under the Student Right to Know and Campus Security Act of 1990, Public Law 101-542, DACC is required to calculate (using a prescribed formula) and disclose graduation rates for all first-time, full-time, degree-seeking students who enrolled at DACC in Summer and Fall 2016. This cohort consists of 1,161 students. The number of graduates who earned either a certificate or an associate degree by Summer 2019 was 167. The three-year, Student-Right-to-Know graduation rate was 14.4 percent.

Rates for previous cohorts after three years are as follows:

Cohort	Rate
Fall 2015 cohort	11.3%
Fall 2014 cohort	15.0%
Fall 2013 cohort	13.3%

The retention rate for first-time, full-time DACC admitted students from Fall 2018 to Spring 2018 was 79 percent. The retention rate for these students from Fall 2018 to Fall 2019 was 60 percent.

Student Special Care Policy

To ensure the safety and well-being of our students, DACC/NMSU may, on occasion, require that students receive a particular type of care or treatment (e.g., emergency medical attention, live-in attendants, or vaccinations) as a condition of continued enrollment or eligibility to reside in university-operated housing. When this care or treatment is required by the cognizant DACC/NMSU administrator, the student will be obligated to assume any financial responsibility associated with the treatment.

Furthermore, DACC/NMSU may, on occasion, contact a student's parents, legal guardian, or spouse in cases of extreme emergency, or where a possibility of imminent harm exists. Such action will be taken only when, in the judgment of the appropriate official, the best interests of the student and the institution will be served.

When practical, DACC/NMSU will notify the student in writing of the institution's intention to undertake the steps authorized by this policy. This decision may be appealed by the student to the DACC Vice President for Student Services (VPSS) within 24 hours of notification. The appeal should be in writing and should state clearly the reason why the student objects to the proposed action. The VPSS will review the facts in the case and convey the decision to all parties within 48 hours. The VPSS's decision shall be final.

Jurisdiction for Legal Matters

By applying for admission/enrollment, both the student and parent(s) or guardian(s) agree that New Mexico law prevails and all litigation will be in federal court in New Mexico or in state court in Doña Ana County, N.M.

Academic Calendar and Contact Information

2020-2021 Academic Calendar

Fall Semester 2020 - August 19 - December 15, 2020

Event Type	Date
Campus Housing Opens for 1st Year Students	Friday & Saturday, August 14-15
Campus Housing Opens for Upperclassmen	Sunday, August 16
Faculty Report	Monday, August 17
Instruction Begins	Wednesday, August 19
Late Registration	Wednesday, August 19
Last day to Add a Course without Instructor's Permission	Thursday, August 20
First Deadline for Filing Certificate/Degree Application (Last Day to Submit & Avoid Late Fee)	Friday, August 28
Last Day to add a Course (Instructor's Permission Required)	Friday, August 28
Labor Day Holiday	Monday, September 7
Window for Early Performance Grades	Friday-Tuesday, September 25-29
Last Day to Drop Course with "W" (Except courses carrying designated dates)	Friday, October 16
Thanksgiving Holiday for Students	Monday-Friday, November 23-27
Last Day to Withdraw from DACC/NMSU (4:59 pm) (Except courses carrying designated dates)	Friday, December 4
EXAM WEEK	Monday-Friday, December 7-11
Last Day of Classes	Friday, December 11
Campus Housing Closes	Saturday, December 12
Final Grades Due	Tuesday, December 15

Spring Semester 2021 - January 22 - May 19, 2021

Event Type	Date
Faculty Report	Thursday, January 14
New Student Orientation/Registration	Friday, January 15
Campus Housing Opens	Sunday, January 17
Martin Luther King Jr Holiday	Monday, January 18
Instruction Begins	Wednesday, January 20
Late Registration	Wednesday, January 20

Last Day to Add a Course without Instructor's Permission	Thursday, January 21
First Deadline for Filing Certificate/Degree Application (Last Day to Submit & Avoid Late Fee)	Friday, January 29
Last Day to Add a Course (Instructor's Permission Required)	Friday, January 29
Window for Early Performance Grades	Friday-Tuesday, February 26 - March 2
Last Day to Drop a Course with "W" (except courses carrying designated dates)	Thursday, March 18
Spring Break	Monday-Friday, March 22-26
Spring Holiday	Friday, April 2
Last Day to Withdraw from DACC/NMSU (4:59 pm) (except courses carrying designated dates)	Friday, May 7
EXAM WEEK	Monday-Friday, May 10-14
DACC Commencement	Thursday, May 13
Last Day of Classes	Friday, May 14
Campus Housing Closes	Saturday, May 15
Final Grades Due	Tuesday, May 18

Summer Semester 2021 - May 27 - August 10, 2021

Event Type	Date
Campus Housing Opens (noon)	Tuesday, May 25
Faculty Report	Tuesday, May 25
Instruction Begins	Wednesday, May 26
Last Day to Add a Course without Instructor's Permission	Thursday, May 27
Memorial Day Holiday	Monday, May 31
Last Day to Add a Course (Instructor's Permission Required)	Wednesday, June 2
Independence Day Observance	Monday, July 5
Last Day to Drop Course with "W" (except courses carrying designated dates)	Tuesday, July 6
First Deadline for Filing Certificate/Degree Application (Last Day to Submit & Avoid Late Fee)	Monday, July 12
Last Day to Withdraw from DACC/NMSU (4:59 pm) (except courses carrying designated dates)	Thursday, July 29
Last Day of Classes	Thursday, August 5
Campus Housing Closes	Friday, August 6
Final Grades Due	Monday, August 9

Holidays for Administrative Offices

•	
Event Type	Date
Labor Day	Monday, September 7, 2020
Thanksgiving	Thursday-Friday, November 26–27, 2020
Winter Holiday	December 24, 2020 - January 1, 2021
Martin Luther King Jr Holiday	Monday, January 18, 2021
Spring Holiday	Friday, April 2, 2021

Memorial Day Holiday	Monday, May 31, 2021
Independence Day Observance	Monday, July 5, 2021

NOTE: Dates in this calendar were compiled in February 2020 and are subject to change. For the most up-to-date information, consult the online <u>Academic Calendar</u>

Inquiries about DACC are welcomed in person, by telephone, by mail and via the DACC Website. Please contact the college for a free information packet.

Location	Phone Number
Switchboard:	(575) 528-7000
Toll free:	1 (800) 903-7503
Fax:	(575) 527-7515
Web:	http:// dacc.nmsu.edu/

Central Administration and Student Services:

Doña Ana Community College East Mesa Campus 2800 Sonoma Ranch Blvd. Las Cruces, New Mexico 88011-1656

Postal Address for All Other Locations:

DACC-NMSU (MSC 3DA) P.O. Box 30001 Las Cruces, NM 88003-8001

Web Information Requests:

dacc.nmsu.edu/admissions/request-information/

Departmental Phone Numbers

-	
Location	Phone Number
Security-All Locations	575-527-7777
Academic Advising Center - East Mesa Campus	575-528-7272
Academic Advising Center - Espina Campus	575-528-7257
Academic Advising Center - Gadsden Center	575-882-6809
Academic Advising Center - Sunland Park Center	575-874-7787
Academic Readiness Center/Tutoring - East Mesa Campus	575-528-7275
Academic Readiness Center/Tutoring - Espina Campus	575-527-7575
Academic Readiness Center/Tutoring - Gadsden Center	575-882-6818
Academic Readiness Center/Tutoring - Sunland Park Center	575-874-7807
Admission to Career Programs	575-527-7526
Adult Education - Espina Campus	575-527-7540
Adult Education - Gadsden Center	575-882-6813
Adult Education - Sunland Park Center	575-874-7790
Adult Education - Chaparral Center	575-824-2010
Adult Education - Workforce Center	575-528-7476
Advanced Technologies Division	575-527-7599

Arts, Humanities & Social Sciences Division	575-527-7669
Bookstore - East Mesa Campus	575-528-7253
Business & Public Services Division	575-527-7560
Cashiers Office	575-527-7516
Chaparral Center	575-824-2000
Computer Lab - East Mesa Campus	575-528-7265
Computer Lab - Espina Campus	575-527-7561
Computer Lab - Cadsden Center	575-882-6802
Computer Lab - Sunland Park Center	575-874-7783
·	575-824-2003
Computer Lab - Chaparral Center	
Computer Lab - Creative Media/Digital & Design	575-527-7677
Counseling (Provided by Ben Archer)	575-640-4669
Customized Training Program	575-528-7440
Dual Credit Program	575-528-7045
East Mesa Campus	575-527-7500
ENLACE - East Mesa Campus	575-528-7396
ENLACE - Espina Campus	575-528-7395
Espina Campus	575-527-7528
Financial Aid - East Mesa Campus	575-528-7001
Financial Aid - Gadsden Center	575-527-7654
Financial Aid - Sunland Park Center	575-527-7654
Gadsden Center	575-882-3939
Health Sciences Division	575-527-7630
Information Center - East Mesa & Espina Campuses	575-528-7001
Learn-to-Read - Literacy Program	575-527-7641
Library/Media Center - East Mesa Campus	575-528-7260
Library/Media Center - Espina Campus	575-527-7555
Library Satellite Office - Gadsden Center	575-882-6819
Library Satellite Office - Sunland Park Center	575-874-7808
Science, Engineering & Mathematics Division	575-527-7690
Small Business Development Center	575-527-7676
Student Accessibility Services (SAS) - All	575-527-7548
Campuses and Centers	0.002
Student Government Association	575-528-7618
Student Recruitment	575-527-7536
Sunland Park Center	575-874-7780
Testing Services - Accuplacer	575-527-7569
Testing Services - GED & Other Tests	575-528-7294
Veterans Program Office	575-528-7081
Vice President for Student Services	575-528-7081
Virtual Learning & Instructional Technology (VLIT) - East Mesa Campus	
Virtual Learning & Instructional Technology (VLIT) - Espina Campus	575-527-7738
Workforce Development & Career Readiness	575-527-7776

Institutional and Program Accreditations

Institutional Accreditation

Coverage	Organization	Mailing Address	Telephone	Fax	Email	Web Address
College as a whole	The Higher Learning Commission (of the North Central Association of Colleges and Schools)	J ,	(800) 621-7440, (312) 263-0456	(312) 263-7462	info@hlcommission.org, complaints@hlcommission.org	http:// www.ncahlc.org

Program Accreditations, Approvals, and Certifications

Program Accreditations

Program	Organization	Mailing Address	Telephone	Fax	Email	Web Address	
Associate Degree in Nursing ¹	Accreditation Commission on Education in Nursing	3343 Peachtree Rd., NE, Atlanta, GA 30326	(404) 975-5000	(404) 975-5020	info@acenursing.org	http:// www.acenursing.org	
Automotive Technology	ASE Education Foundation	1503 Edwards Ferry Rd. NE Suite 401 Leesburg, VA 20176	(703) 669-6650	(703) 669-6677	info@ASEeducationFoundation.org	www.aseeducationfoundat ase-education- foundation	tion.org/
Building Construction Technology	National Center for Construction Education and Research	13614 Progress Blvd., Alachua, FL 32615	(386) 518-6500	(386) 518-6303	Use "Contact Us" tab on website	http://www.nccer.org	
Business Management	Accreditation Council for Business Schools and Programs	11520 West 119th St. Overland Park, KS 66213	(913) 339-9356	(913) 339-6226	info@acbsp.org	http://www.acbsp.org	
Dental Assisting	Commission on Dental Accreditation	211 East Chicago Ave. Chicago, IL 60611-2678	` '	(312) 587-5107	renfrowp@ada.org or smithmi@ada.org	http:// www.ada.org/117.aspx	
Dental Hygiene	Commission on Dental Accreditation	211 East Chicago Ave. Chicago, IL 60611-2678	• •	(312) 587-5107	renfrowp@ada.org or smithmi@ada.org	http:// www.ada.org/117.aspx	
Diagnostic Medical Sonography	Commission on Accreditation of Allied Health Education Programs	1361 Park St. Clearwater, FL 33756	(727) 210-2350	(727) 210-2354	mail@caahep.org	http://www.caahep.org	
Emergency Medical Services	Commission on Accreditation of Allied Health Education Programs	1361 Park St. Clearwater, FL 33756	(727) 210-2350	(727) 210-2354	mail@caahep.org	http://www.caahep.org	
Emergency Medical Services		1301 Siler Rd., Building F, Santa Fe, NM 87507	(505) 476-8200	(505) 471-2122	charles.schroeder@state.nm.us	www.nmems.org	
Fire Science Technology	International Fire Service Accreditation Congress	Oklahoma State Univ. 1812 Tyler Ave. Stillwater, OK 74078	(405) 744-8303	(405) 744-8802	admin@ifsac.org	https://ifsac.org	
Health Information Technology	Accreditation Council for Business Schools and Programs	11520 West 119th St. Overland Park, KS 66213	(913) 339-9356	(913) 339-6226	info@acbsp.org	http://www.acbsp.org	
Office Administration Technology, formerly Business Office Technology	Accreditation Council for Business Schools and Programs	11520 West 119th St. Overland Park, KS 66213	(913) 339-9356	(913) 339-6226	info@acbsp.org	http://www.acbsp.org	

Pre-Business	Accreditation Council for Business Schools and Programs	11520 West 119th St. Overland Park, KS 66213	(913) 339-9356	(913) 339-6226	info@acbsp.org	http://www.acbsp.org
Radiologic Technology	Joint Review Committee on Education in Radiologic Technology	20 N. Wacker Dr., Suite 2850, Chicago, IL 60606-3182	(312) 704-5300	(312) 704-5304	email via website: http:// www.jrcert.org/contact	http://www.jrcert.org
Respiratory Therapy	Commission on Accreditation for Respiratory Care	1248 Harwood Rd. Bedford, TX 76021-4244	(817) 283-2835	(817) 354-8519	email via website: https:// www.coarc.com/Contact.aspx	http://www.coarc.com
Welding Technology	American Welding Society	8669 NW 36th St., #130, Miami, FL 33166	(305) 443-9353	N.A.	Use "Contact Us" tab on website	http://www.aws.org

Program Approvals by the State of New Mexico

•		•				
Program	Organization	Mailing Address	Telephone	Fax	Email	Web Address
Associate Degree in Nursing	New Mexico Board of Nursing	6301 Indian School Rd., N.E., Suite 710, Albuquerque, NM 87110	(505) 841-8340	(505) 841-8347		http://nmbon.sks.com
Licensed Practical Nursing Certificate	New Mexico Board of Nursing	6301 Indian School Rd., N.E., Suite 710, Albuquerque, NM 87110	(505) 841-8340	(505) 841-8347		http://nmbon.sks.com
Nursing Assistant	New Mexico Health Improvement Division	Delfinia Sandoval, NAR Coordinator, 2040 S. Pacheco St., 2nd Floor, Rm. 237, Santa Fe, NM 87505	(505) 476-9040	(505) 476-9026	Delfinia.Sandoval@state.nm.us	https://nmhealth.org/ about/dhi/

Program Certifications

Program	Organization	Mailing Address	Telephone	Fax	Email	Web Address
Aerospace Technology	SpaceTEC®	Mail Code: SpaceTEC Kennedy Space Center, FL 32899	(321) 730-1020	(321) 476-5335	information@spacetec.org	http://www.spacetec.us/
Drafting and Desigr Tech.	n American Design Drafting Association	105 East Main St. Newbern, TN 38059	(731) 627-0802	(731) 627-9321	email via website, "Contact Us" tab	http://www.adda.org

The Associate Degree in Nursing Program currently has initial accreditation status. The next evaluation visit is set for spring 2020.

About the Community College History and Organization

In 1965, Doña Ana County was designated by the New Mexico Department of Education as an appropriate site in southern New Mexico for an area vocational-technical school. In 1971, the boards of education of the Gadsden, Hatch, and Las Cruces school districts requested that New Mexico State University establish a branch community college located on its campus in Las Cruces to offer postsecondary vocational-technical education in Doña Ana County. The NMSU Board of Regents approved the request in 1972, and the voters in Doña Ana County approved an operational mill levy in May 1973. The institution became an official entity on July 1, 1973. It began offering vocational training programs on September 4, 1973, as the Doña Ana County Occupational Education Branch of New Mexico State University.

College Mission, Vision, and Values

MISSION STATEMENT. DACC is a responsive and accessible learning-centered community college that provides educational opportunities to a diverse community of learners in support of workforce and economic development.

VISION STATEMENT. DACC will be a premier learning college that is grounded in academic excellence and committed to fostering lifelong learning and active, responsible citizenship within the community.

VALUES STATEMENT. As a learning-centered community college, DACC is committed to the following core values:

Education that:

- · offers lifelong learning opportunities
- fosters dynamic learning environments designed to meet the needs of our students
- · guarantees equality of rights and access
- · ensures integrity and honesty in the learning process
- · provides comprehensive assessment of learning

Students who will be:

- · respected for their diversity
- · provided with a safe and supportive learning environment
- · challenged to become critical and independent thinkers
- expected to take an active role in their learning process

Leaders and employees who:

- practice transparency and inclusiveness in decision-making through shared governance and with external stakeholders
- · encourage and support professional growth
- · demonstrate high ethical standards and integrity
- · encourage collaborative interaction among faculty and staff
- · practice responsible fiscal management and personal accountability
- · ensure equal opportunities for a diverse faculty and staff

Communities that:

- · build partnerships, including educational alliances
- strengthen industry partnerships to provide workforce development services and programs in support of economic development
- develop and adapt instructional programs in response to changing educational needs

NMSU SYSTEM VALUES

- · Diversity and Inclusion
- · Accountability
- Excellence
- · Discovery
- Engagement

Governance and Funding

DACC is a community college of New Mexico State University. As such, it is governed by the Board of Regents of the university. Through an operating agreement between the university and the three school districts in Doña Ana County DACC is served by an Advisory Board. Operating expenses for the community college are paid from state-appropriated funds, a property tax within the three school districts in the county, federal career-technical education funds, special grants, and tuition paid by students, the majority of which is subsidized by financial aid.

Educational Facilities

Doña Ana Community College has three locations in Las Cruces, as well as centers located throughout the county. For more information about the individual sites, see the section titled "Additional Locations" (p. 26)".

Online Study

Many courses and, in some cases, entire programs may be completed without ever attending classes at a physical campus. The following DACC programs may currently be completed entirely online:

Online Degrees

- · Associate of Arts (p. 112)
- · Associate of Business Occupations (p. 133)
- · Associate Pre-Business (p. 297)
- · Associate Criminal Justice (p. 178)

- Associate of Applied Science Health Information Technology (p. 267)
- · Associate Public Health (p. 299)
- Associate of Applied Science Computer and Information Technology (p. 144)
- · Associate of Science (p. 115)

Online Certificates

- Business Management (p. 133)
- · Community Health Worker (p. 302)
- · Computer Information Technology (p. 144)
- · Health Information Technology (p. 267)

To see which classes are being offered online during a given semester, consult the *Schedule of Classes*.

Institutional Accreditation

New Mexico State University – Doña Ana Community College is independently accredited by the Higher Learning Commission of the North Central Association of Colleges and Schools.

The Higher Learning Commission 230 South LaSalle Street, Suite 7-500

Chicago, Illinois 60604-1411

Phone: 1 (800) 621-7440 / (312) 263-0456

Fax: (312) 263-7462

E-mail: info@hlcommission.org

For links to e-mail addresses of various departments at the Higher Learning Commission, visit http://www.ncahlc.org/General/contact-us.html.

Individual Program Accreditations, Approvals, and Certifications

Refer to the tables at <u>Institutional and Program Accreditations</u> (p. 9) for information about individual program accreditations, approvals, and certifications.

Admissions

Doña Ana Community College provides educational opportunities for those who seek to advance in the workforce or to prepare for further study at a higher level. The community college endorses the opendoor admission concept and will admit—to the limit of its physical and financial resources—new, first-time students who wish to attend and who have a high school diploma or its equivalent. High school diplomas must be from an accredited high school. Diplomas from accredited, on-line high schools, however, are subject to strict review and may not in all cases be judged valid for the purpose of enrolling at DACC.

Assessment and NEX GEN Placement

Unless applicants have taken the ACT or SAT within the last 12 months, they will be required to take the NEX GEN assessment, which covers basic academic skills. Transfer students who have taken math and English courses at another institution may be exempted from taking the NEX GEN.

Academic assessment and placement improves one's chances for success in college courses. NEX GEN assessment is not used to select students; rather, it ensures students will be placed in classes best suited to their preparation and ability. These may include credit ESL courses, if

English is not their first language. If deficiencies in basic academic skills are indicated, an individualized educational plan can be developed by an advisor to help the student acquire these skills.

There is no charge for a first-time NEX GEN assessment, except under the following circumstances:

- 1. when a student chooses to re-take the NEX GEN, and
- when a student takes the NEX GEN at DACC for the purpose of conveying the results to an entity outside of the NMSU system.

For more information call (575) 527-7569.

Orientation

Students who have never attended college before must schedule an appointment for a First-Year Student Orientation, which is designed to provide new students with information they will need to make a successful start at DACC. Students learn about the steps to getting started in college, the majors and career programs offered at DACC, the principles of effective academic planning, and the many services and resources designed to enhance educational success. Failure to complete an orientation will result in a "hold" on the student's account, such that (s)he will be unable to register for courses. Students can register for orientation online at https://newstudentregistration.nmsu.edu. Additional information may be obtained by calling the Orientation Office at (575) 527-7536.

How to Apply

Prospective students should follow these procedures when applying for admission to any program at the community college:

- Complete the online application at http://dacc.nmsu.edu/admissions/apply-online/
- Submit the application with a \$20 nonrefundable application fee (do not mail cash) to:

Admissions Office

Doña Ana Community College

MSC-3DA, P.O. Box 30001 Las Cruces, NM 88003-8001.

- 3. Request official high school and/or college transcripts. Transcript request forms may be obtained at the DACC Admissions Office, located on the East Mesa Campus in DASR 107, or online at http://dacc.nmsu.edu/admissions/downloadable-admission-forms/. First-time college students should have their official high school transcript sent directly from the high school to the DACC Admissions Office. Transfer students must have official transcripts sent directly to the DACC Admissions Office by the registrar of each college or educational institution previously attended (see "How Transfer Students Are Admitted">How Transfer Students Are Admitted (p. 13).") Hand-carried transcripts are not accepted.
- Applicants possessing a high school equivalency must request to have official GED or HiSET transcripts sent directly to the DACC Admissions Office.
- Make arrangements to take the Accuplacer assessment with the testing coordinator at (575) 527-7569, who can provide information regarding dates, times, and location.

Aggie Pathway

Student applicants who do not meet NMSU-Las Cruces admission requirements may apply to participate in the Aggie Pathway to the baccalaureate program at any of the NMSU community colleges. Aggie Pathway students may transition to the NMSU-Las Cruces campus

after successful completion of any required developmental education courses and 24 degree credits with a 2.5 cumulative college GPA. Each student will follow an individualized study plan developed in partnership with an academic advisor that typically includes study skills courses, developmental education courses, and/or general education courses. Aggie Pathway students enrolling through NMSU–Dona Ana have access to NMSU–Las Cruces on-campus housing, dining, and activities. For more information, go to http://aggiepathway.nmsu.edu or call (575) 646-8011.

How to Be Readmitted to Doña Ana Community College

Former Doña Ana Community College students who will have been out of school for more than 12 months before re-entering are required to complete an application for readmission. Applications should be submitted 30 days before the beginning of the semester or summer session for which the student plans to enroll.

A student who has attended other institutions during an absence from DACC / NMSU must have official transcripts forwarded directly to the DACC Admissions Office by the registrar of each institution and must be eligible to return to the college or university last attended. Transcripts must be received prior to the date of registration. Admission status at the time of readmission will normally be determined by previous DACC academic standing. However, academic performance at other institutions attended during the applicant's absence from DACC may be taken into consideration in determining the student's academic admission status.

How GED and HiSET Graduates Are Admitted

Students having successfully completed the GED or HiSET in English are eligible to apply for admission to DACC. They must have their official GED or HiSET transcripts sent directly to the DACC Admissions Office through diplomasender.com. Students who took the GED or HiSET in Spanish should contact the DACC admissions director.

How Home-School Students Are Admitted

Students enrolled in a home-school program may be accepted to Doña Ana Community College if they meet the requirements for regular or provisional admission. In addition, the home-school educator must submit a transcript or document that lists the courses completed and grades earned by the student and also indicates the date the student completed or graduated from the home-school program. Home school students who are New Mexico residents and wish to participate in the Lottery Success Scholarship program are required to submit official New Mexico GED test results.

How Transfer Students Are Admitted

Transfer students from other colleges or universities may be accepted if their cumulative GPA is at least 2.0, they are eligible to return to the college or university they last attended, and they graduated from high school or successfully passed the GED. Those who have fewer than 30 credits must meet first-time freshman admission requirements. Transfer students follow the same procedures as those outlined under "How to Apply." Official transcripts from all colleges and/or universities previously attended must be sent directly to the DACC Admissions Office by the registrar of each college or educational institution. An academic credit evaluation will be mailed to the student from DACC Academic Advising.

A student who conceals the fact that (s)he has attended another college or university and who has not had transcripts submitted by each institution previously attended—whether or not credit was earned—will be subject to immediate suspension.

How International Students Are Admitted

An international student is any individual attending DACC while present in the United States on a non-immigrant student visa. In addition to the general policies of DACC/NMSU that apply to all students, some special policies applicable only to international students are necessitated by federal laws. DACC refers all prospective international students to the NMSU Office of University Admissions or to the NMSU International Student and Scholar Services (ISSS) Office for further information and to begin the application process. The Office of University Admissions, located in the Educational Services Building on the Las Cruces (Main) campus, can be reached at 1 (800) 662-6678. The ISSS Office, located in Breland Hall, room 152 on the NMSU Las Cruces (Main) campus, can be reached by calling (575) 646-2834. The NMSU Catalog contains more specific information pertaining to international student admissions.

Students submitting transcripts from a foreign high school or postsecondary institution must submit a translated copy of their transcripts if they are not already in English. Contact the DACC Admissions Office at (575) 528-7244 for more information.

How Non-Degree Students Are Admitted

IMPORTANT: Students enrolling under non-degree status are ineligible for financial aid, student employment, veteran's benefits, and participation in intercollegiate athletics and student government. Furthermore, courses taken while one is enrolled under non-degree status may not be used to meet NMSU requirements for regular admission. Non-degree admission is designed to meet the needs of mature, part-time students who do not wish to pursue a degree. Those who prefer not to receive a grade may choose to audit. (See "Audit Option" (p. 27)" in Academic Regulations section.)

Transcripts from previous institutions (including high school) and/or results of college entrance exams may be required to assure readiness for university-level courses.

Non-degree students are subject to the same regulations as regular students. They may not transfer more than 30 credits that were taken while in this status to any degree program.

Admission requirements include a non-degree application and a nonrefundable \$20 application fee.

Changing from Non-Degree to Degree-Seeking Status. A non-degree student in good academic standing with a GPA of 2.0 or better may apply for a change of status from non-degree status to regular (degree-seeking) status. Requirements for regular admission must be met, including submitting official high school transcripts as well as official college transcripts from all previously attended institutions of higher education. The status will be effective on or before the census date of the semester in which all official transcripts are received. If all official transcripts are received after the census date of the current semester, the change of status will take effect in the next immediate term.

Application Materials

All documents submitted as part of the admissions process become property of DACC/NMSU and will not be returned to the student. Application materials are retained for one calendar year for students who apply but do not attend.

Early Admission for High School and Adult Education Students

It is possible for a current junior or senior high school student to be admitted to DACC, provided the following criteria have been met:

- The student has obtained written permission from the high school principal/counselor and the parents.
- 2. The student's cumulative grade-point average is at least 3.0.
- The student has attained the established minimum scores on the ACT/SAT assessment, or passed two out of three sections of the Accuplacer assessment.
- The student has attained the established minimum scores required to enroll in ENGL 1110G Composition I and MATH 1215 Intermediate Algebra.

For more information about the NEX GEN assessment, please see the subsection titled, "Assessment and NEX GEN Placement (p. 12)." which appears near the beginning of the Admissions section of this catalog.

To apply, high school students must provide the following documents:

- written permission from the high school counselor or principal/ counselor.
- · written permission from parents,
- · an official high school transcript sent directly to DACC, and
- · a complete DACC/NMSU admissions application.

Students currently enrolled in an Adult Education (AE) Program at DACC may also apply for early admission. Current AE students applying for early admission must provide TABE scores of 580 or above on every section (reading, writing, math), written permission from the AE executive director, pass two out of three sections of the Accuplacer assessment, and submit a complete DACC/NMSU application for admission.

Under the Early Admissions Program, all students are admitted in a non-degree status. For more information regarding non-degree status, please refer to the subsection titled, "Non-degree Admission (p. 14)." Non-degree students are ineligible to receive federal financial aid funds. Students admitted under this program are also limited to seven (7) credit hours per semester and incur all costs associated with enrollment, including books.

 $\label{lem:problem} \mbox{Developmental courses are not available for enrollment under the Early Admissions Program.}$

Early admissions students who wish to enroll at DACC or NMSU upon graduation from high school or obtaining a GED must reapply under their new status as a first-time freshman.

Dual Credit Program

The Dual Credit Program (DCP) is designed to give high school students the opportunity to enroll at Doña Ana Community College prior to high school graduation. Students must be enrolled at least half time as a junior or senior in a New Mexico public high school. Under a Dual Credit Master Agreement between DACC and the school district, students enrolled in approved dual credit courses are eligible to have the full cost of tuition and general fees waived. DCP participants do not pay for tuition or textbooks; however, they do pay for their own supplies, protective apparel, and tool sets when needed. Students are responsible for any course-specific fees, such as lab or online fees. They may take

college-level courses that will simultaneously count toward high school graduation and toward a certificate or an associate degree at DACC.

Completing requirements for a degree or certificate prior to graduating from high school is not the norm. Students typically must attend additional semesters or sessions at DACC following high school graduation and pay DACC tuition and fees from that point forward.

Students should apply for DCP opportunities with their high school counselor. They must complete the Application for Admission, the State Dual Credit Request Form, and provide their official high school transcripts. Requirements to be admitted to the DCP are a high school grade-point average (GPA) of 2.0 and either an ACT score of 15, PSAT score of 860, or passing scores on two out of three sections of the NEX GEN placement assessment. Students must also meet the criteria agreed upon by their school district and DACC. For further information, contact the appropriate high school counselor.

High school students enrolled in a high school that does not have a Dual Credit Master Agreement with DACC may be eligible for enrollment as Early Admission students; however, as such, they would be responsible for all costs related to enrollment. For further information, contact the DACC Admissions Office at (575) 528-7244.

NOTE: Not all DACC courses taken through the DCP are transferable to other colleges and universities.

Early College High School Program

The Early College High School Initiative is designed to allow students to simultaneously earn a high school diploma while earning up to two years (60 hours) of college credit, which might result in a college certificate or associate degree by the time they graduate from high school. The facilities, usually located on a college or university campuses, make higher education more accessible and also help students become more comfortable in a higher education environment.

The key to the success of this initiative is a strong partnership between the school districts and higher education institutions. In the State of New Mexico, Doña Ana Community College has created a partnership with the Las Cruces Public School District and the Gadsden Independent School District to offer enrollment in three early college high schools. DACC is currently serving more than 500 students through this program.

For further information on the admission requirements for early college high school, contact one of the high schools directly. Information about the Arrowhead Park Early College High School and the Arrowhead Park Medical Academy (both part of LCPS) may be obtained by calling (575) 527-9540; for Alta Vista Early College High School (GISD), call (575) 882-6400.

Special Admissions Requirements

Certain programs at DACC have special admissions requirements:

- · Culinary Arts (p. 186)
- · Dental Assistant (p. 190)
- Dental Hygiene (p. 193)
- · Diagnostic Medical Sonography (p. 198)
- · Dual Credit (concurrent enrollment) (p. 14)
- Emergency Medical Services-Paramedic (p. 245)
- Nursing (associate degree program) (p. 283)

- · Radiologic Technology (p. 303)
- · Respiratory Therapy (p. 307)

In addition to fulfilling the general requirements for admission to the community college, individuals seeking admission to these programs must also fulfill certain special admissions requirements. Since these programs generally have limited enrollment, completion of the admissions requirements for a specific program does not guarantee acceptance into the program. Acceptance may be competitive, based on individual academic performance in previous coursework and other criteria. Information regarding the application procedure for a specific program may be obtained from the department offering that program.

Students must reapply to special admissions programs each time they wish to be considered for acceptance. For example, a student who has fulfilled the special admissions requirements, yet was not admitted because of space limitations, will not automatically be considered for a subsequent semester; (s)he must reapply. Similarly, one who may have been accepted during a particular semester, but failed to accept an offer to enroll, must also reapply in order to be considered again.

Standards for Program Participation

Some programs may require technical standards for admissions and/ or continued program participation. Technical standards may include possessing or acquiring skills or behaviors to complete performancebased tasks. Completion of these tasks may be required for program completion. See individual program descriptions for further information.

Security Background Checks. Certain programs of study require that students complete and pass a security background check. Past criminal violations may prevent a student from completing his/her degree and from being hired after graduating. Programs requiring a security background check disclose this fact in their program description sections found in this catalog.

Aggie Pathway

Student applicants who do not meet NMSU-Las Cruces admission requirements may apply to participate in the Aggie Pathway to the baccalaureate program at any of the NMSU community colleges. Aggie Pathway students may transition to the NMSU-Las Cruces campus after successful completion of any required developmental education courses and 24 degree credits with a 2.5 cumulative college GPA. Each student will follow an individualized study plan developed in partnership with an academic advisor that typically includes study skills courses, developmental education courses, and/or general education courses. Aggie Pathway students enrolling through DACC have access to NMSU-Las Cruces on-campus housing, dining, and activities. For more information, go to http://aggiepathway.nmsu.edu or call (575) 646-8011.

Academic Advising and Registration

Academic advising at DACC is an ongoing, shared partnership between a student and an advisor that focuses on assisting the student to identify, plan and achieve academic goals aligned with his or her career and life aspirations. Moreover, it is part of the educational process that aims to assist students to become active and effective agents of their own learning.

In the academic advising process, students and advisors work together to:

- Develop an awareness of values, interests, abilities, skills and potential
- · Identify academic and career goals and options
- · Choose an academic program
- Strategically plan out steps toward graduation, or the completion of an academic goal
- · Identify effective academic study skills and habits
- Learn how to solve problems that impede progress toward an academic goal
- · Identify appropriate campus resources
- · Learn how to use the my.NMSU.edu account and STAR Degree Audit
- · Select courses
- · Register for classes

Targeted student-learning outcomes underlying the DACC academic advising process include critical thought, self-appraisal, decision making, healthy independence, responsibility, and respect for self and others. These outcomes are the ideal product of quality academic advising.

Structure of DACC Academic Advising

Students declared into a specific major or academic program are advised by a specific professional academic advisor and/or a DACC faculty advisor in that academic program. Students may visit or call the Academic Advising Center, DASR 103, (575) 528-7272 for more details.

Students who are not declared into a specific major, or who are in transition between programs, are advised through the Academic Advising Center, which serves as a central resource for the following categories of students:

- Transitional students, including those in the Aggie Pathway Program and other unclassified students who choose DACC as a place to begin their college career
- Degree-seeking students pursuing the Associate Degree in General Studies
- · Exploratory (undecided) students
- · Non-degree-seeking students

When to Seek Academic Advising

NEW STUDENTS will meet with an academic advisor and register for classes after attending a first-year student orientation.

TRANSFER AND READMITTED STUDENTS should make an appointment to see an academic advisor once their DACC admission is complete.

CONTINUING STUDENTS should plan ahead and meet with their academic advisor every semester, well in advance of continuing-student registration.

Special Requirements for DACC Pre-Health Majors

All students declared into the following DACC Pre-Health majors:

- · Pre-Dental Assistant
- · Pre-Dental Hygiene
- · Pre-Diagnostic Medical Sonography
- Pre-Nursing
- · Pre-Radiologic Technology
- · Pre-Respiratory Therapy

are required to identify and declare a second major (associate degree or certificate) in any DACC non-selective program. See the Academic Advising Center for details.

Additionally, all DACC pre-health majors with a college cumulative GPA of less than 3.0 will be required to be academically advised prior to course registration each semester.

Registering for Classes

After academic advising is completed, students have the option to register for classes either online or in person.

REGISTERING ONLINE. After being admitted and receiving academic advising, eligible students may register for classes on the Web at my.NMSU.edu/. For additional information, refer to the online Registration Guide, available at http://registration.nmsu.edu/.

Students need to use their NMSU user ID and password to access web registration through the *my.NMSU.edu* website. In the event that a student forgets his/her password, the system will allow the student to reset it online, provided (s)he answers a pair of security questions correctly. If attempts to do so fail, the student must consult with the ICT help desk in room 105 of the NMSU Hardman Jacobs Undergraduate Learning Center (575) 646-1840.

The web registration system will not accept requests for the S/U grading option unless the course is offered exclusively on an S/U basis. Likewise, the system will not accept requests for the "audit" grading option. To request S/U or audit grading for courses, students will need to see their academic advisor.

Upon completing online registration, students may either print out the registration document themselves or ask for it at the DACC Information Center on the East Mesa Campus (DASR 101H), at any other DACC location, or at the NMSU Student Records Office.

REGISTERING IN PERSON. Students must obtain a Change of Schedule form from their academic advisor, complete the form and have the advisor sign it, and then submit the form to the DACC Information Center in DASR 101H on the East Mesa Campus, to the NMSU Student Records Office, or to a registration office at any other DACC location. In some cases, the student must obtain the instructor and/or department head signature on the Change of Schedule form before submitting it to the Information Center. Once registered, students should obtain their registration document, which is available at the DACC Information Center or at any other location where one may register. The registration document includes a student's official class schedule.

REGISTERING FOR COURSES ON OTHER NMSU CAMPUSES. Students may register for courses at another campus in the NMSU system if the course is not offered at their home campus, or if the course is full at their home campus. In the case of all other courses, open enrollment into all classes on all campuses will begin two weeks before classes begin for the semester, provided seats are available and students meet prerequisites.

Terms and Conditions of Course Registration

Students must complete registration for all courses prior to the first day of class to avoid incurring late fees. Students who subsequently decide not to attend, and have not officially withdrawn from DACC / NMSU, will earn failing grades while remaining financially liable.

When students have a previous balance, their courses for the current term may be canceled if they have not made the appropriate

arrangements to pay the debt owed. Visit http://registration.nmsu.edu/, click on the drop-down menu for the appropriate semester or term, and select "Tuition and Billing Information."

Additionally, students will be dropped from courses for which they do not meet prerequisites, including courses in a sequence that require a grade of *C* or better to proceed to the next course in that sequence.

Drop of Courses Due to Prerequisite Course Grade

Each semester when grades are reported, DACC proactively drops students out of future semester courses in which the student did not earn the minimum prerequisite grade in the prior semester. The student is notified of this drop through their NMSU email.

Academic Sanctions

Students placed on academic warning, probation, or suspension during the end-of-term grading process will be emailed a notification to their NMSU email. Students placed on suspension will have any courses in which they may be registered for future semesters canceled, and applicable refunds will be made by the Business Office.

Changes in Registration: Adding and Dropping Courses

Registration changes may be processed only in accordance with university regulations and with appropriate signatures. If a student decides to stop attending a course, it is the responsibility of the student to initiate official withdrawal from the course and to obtain all necessary signatures on the Change of Schedule form. Failure to do so could result in failing grades.

Forms are available from academic advisors, at the DACC Information Centers, or on the NMSU Student Records Office website. Courses may not be added or dropped after the cutoff date indicated in the university calendar, with the exception of petitions for retroactive withdrawals processed in accordance with Policy 6.92. For refund policy, see http://uar.nmsu.edu/withdrawals/. If a student drops a course after the last day to "cancel" a course with a 100 percent refund, no refund in any amount will be issued.

ADDING A COURSE. The deadline for adding courses during a given term is listed online at http://registration.nmsu.edu/.

Students desiring to add a course to their current registration schedule should do so in consultation with their academic advisor. If the desired course is still open, the student may add it online through his/her *my.nmsu.edu* account. If the course is closed, the student will need the instructor and department chair's permission and signatures on a Change of Schedule form.

Once the Change of Schedule form has been completed and all necessary signatures have been obtained, the student takes the completed form to the Information Center for processing. The Information Center will provide the student with a revised registration schedule, which the student should review immediately to ensure there are no inaccuracies. Any errors should be reported immediately.

DROPPING A COURSE. The process for dropping a course is similar to the process for adding a course. The student must consult with the academic advisor and drop the course by the deadline either online through his/her *my.nmsu.edu* account, or with a Change of Schedule form with all required signatures.

When a student officially drops a course, the *W* grade is assigned as follows:

- 1. No grade is assigned during the end of the cancellation period.
- A grade of W is recorded when a course is dropped between the last day to cancel and the midpoint of the semester. A student may not withdraw from courses after this deadline, unless the student officially withdraws entirely from DACC / NMSU.
- Officially withdrawing completely from DACC / NMSU is equivalent to dropping all classes, and therefore a grade of W will be recorded for all classes attempted. The deadline for withdrawing completely is listed online at http://registration.nmsu.edu/.

NOTES:

- A student found to be insufficiently prepared for a particular course may be transferred to a more elementary course in the same subject area, provided that
 - a. the instructor of the more elementary course has given his/her consent, and
 - b. the transfer is completed before the last day to officially withdraw from an individual course. Commonly referred to as a "drop-back," this type of transfer is usually, but not always, employed in cases of sequenced courses such as mathematics, English, or foreign languages.
- Financial aid or other third-party funding sources should be consulted when enrollment changes occur. Anyone attending under the Veterans Educational Assistance Program should notify the Veterans Office in DASR 111 on the East Mesa Campus when dropping or adding courses, as such changes could cause a reduction in the benefits received.

Full Withdrawal from DACC/NMSU

Full withdrawal from DACC or any other NMSU campuses terminates enrollment in all courses and effects a full withdrawal from the entire NMSU system. It is an official procedure requiring signed approvals as indicating on the withdrawal form; it cannot be completed online. As such withdrawals will be noted on the student's transcript.

It is the student's responsibility to initiate withdrawal from the university and to obtain necessary signatures. Students who leave without following the official procedure are graded appropriately by the instructor. DACC students enrolled at any NMSU campus may process their withdrawal either at the Information Center on one of the DACC campuses or at the NMSU Student Records Office, located in the Educational Services Building on the Las Cruces Campus.

Applicable dates are published in the official academic calendar for all regular sessions at http://registration.nmsu.edu/.

Financial information concerning drops and withdrawals can be found at http://uar.nmsu.edu/withdrawals/. Financial Aid recipients should contact the Office of Financial Aid before withdrawing.

The Federal Higher Education Act requires the University to calculate a Return of Federal Student Aid Funds for students who withdraw (officially or unofficially) from all classes on or before the 60 percent attendance point in the semester. Using a pro-rata schedule, the percentage of the semester attended is used to calculate the amount of the student's earned versus unearned Federal student aid funds. The unearned portion of Federal student aid funds will be returned to the appropriate aid program(s). Students withdrawing from classes are responsible for payment of any balance due after the required return of Federal student aid funds.

Student Medical Withdrawal

A medical withdrawal applies to a student who becomes seriously ill, injured, or hospitalized and is therefore unable to complete an academic term for which he or she is enrolled. The attending physician must provide a letter on official letterhead with an original signature, stating the date(s) within the semester that the student was under medical care and that the student must withdraw because of the medical condition. This letter must be submitted within the semester or no later than one academic year after the end of that term for which the withdrawal is being requested.

Once the information is reviewed a determination will be made if the student is eligible for consideration of tuition or other refunds (Students receiving any funds awarded by the Office of Financial Aid should consult with them on policies regarding withdrawal). Those seeking medical withdrawal should contact NMSU Student Records Office directly to initiate the process.

Withdrawal Due to Medical Conditions of a Family Member

A student who must withdraw because of a medical condition of an immediate family member will need to submit a letter from the family member's attending physician on official letterhead with an original signature, stating the date(s) within the semester that the student's immediate family member was under medical care, and confirm that the student must withdraw to attend to the immediate family member's medical condition. This letter must be submitted within the semester or no later than one academic year after the end of that term for which the withdrawal is being requested.

For purposes of this policy, "immediate family member" includes spouse, a domestic partner as defined in the NMSU Policy Manuel 7.04 Domestic Partnerships, a child, parent or legal guardian, a sister or brother, a grandparent, or a grandchild. Such familial relationships created by law are also included (i.e. mother/father in law; half or step siblings); other relationships can be considered on a case—by-case basis.

Once the information is reviewed a determination will be made if the student is eligible for consideration of tuition or other refunds (Students receiving any funds awarded by the Office of Financial Aid should consult with them on policies regarding withdrawal). Those seeking medical withdrawal due to medical conditions of a family member should contact NMSU Student Records Office directly to initiate the process.

Administrative Withdrawal

In the event that a student has stopped attending class without formally withdrawing, the instructor reserves the right to remove the student from the class by means of an administrative withdrawal.

Military Withdrawal

Veteran students attending DACC who are called up for active duty and need to withdraw from all classes must contact the following offices:

- DACC VETERANS PROGRAM. Students will provide a copy of their orders to the DACC Veterans Program Office in DASR 111 on the East Mesa Campus (575) 528-7081. To assist in reporting accurate information to the VA Regional Office, students should also provide documentation stating the last day of class attendance.
- NMSU STUDENT RECORDS OFFICE. Students also will present their orders to the NMSU Student Records Office (575) 646-3411. They will

receive a military withdrawal from classes and a full refund of tuition and fees for the semester in which they are called to active duty.

Students who still have their receipts for textbooks purchased during the semester in which they are called to active duty will be given a full refund for these textbook purchases when they present their orders.

Tuition and Fees

For the most up-to-date information please visit <u>New Mexico State</u> <u>University's Accounts Receivable</u>. Prices, rates, and fees are subject to change at any time and without notice.

Application Fee

A one-time \$20 application fee and a completed application must be submitted to DACC. The fee, which is not refundable, is required of students who have not previously enrolled at New Mexico State University or one of its community colleges.

Tuition and Mandatory Fees

For academic year 2020-2021, tuition rates, including mandatory fees, at DACC are as follows:

- \$74 per credit, or \$888 per semester, for in-district students (residents of Doña Ana County);
- \$90 per credit, or \$1,080 per semester, for out-of-district students (residents of other counties within New Mexico); and
- \$236 per credit, or \$2,832 per semester, for nonresident (out-of-state and international) students. However, when nonresidents enroll in a summer session, or when they enroll in six credits or fewer during a regular term, they pay the in-state (but out-of-district) rate.

Per-semester costs for tuition and mandatory fees are calculated by multiplying the number of credits by the applicable per-credit rate. Students taking between 12 and 18 credits are charged for only 12, provided that all credits are taken exclusively at DACC. Then, beginning with the 19th credit, the per-credit charge is again imposed.

At NMSU, tuition with mandatory fees for academic year 2020-2021 are \$278.60 per credit for residents and \$907.10 per credit for nonresidents (out-of-state and international students). For further information about tuition, fees, and other charges at NMSU, visit http://uar.nmsu.edu/tuition-fees/.

DACC and NMSU tuition and mandatory fees are calculated independently of each other.

Resident, Nonresident Status

Resident or nonresident status shall be determined according to the uniform definition set forth by the New Mexico Higher Education Department. The NMSU Registrar's Office administers residency. Out-of-district information is available at the DACC Office of Admissions in DASR 107 on the East Mesa Campus.

Members of the Armed Forces, as well as their spouses and minor children, who are not otherwise entitled to claim residency are eligible for tuition payment at the resident student rates upon presentation of certification from their commanding officer of assignment to active duty within New Mexico. Certification is required at the time of initial registration.

All enrolled members of the Navajo Tribe who reside on the Navajo Reservation, as certified by the Navajo Department of Higher Education, will be assessed in-state, out-of-district tuition rates at all times.

Other Fees-Resident and Nonresident

Graduation Fee: Associate Degree	\$25
Graduation Fee: Certificate Programs	\$10
International Student Admission Fee	\$50

Payment of Charges

By enrolling in classes at DACC/NMSU, a student makes a financial commitment to pay the tuition and fee charges associated with that enrollment. The enrollment action constitutes a financial obligation between the student and DACC/NMSU and all proceeds of this agreement will be used for education purposes and constitutes an education loan pursuant to 11 U.S.C 523(a) (8). Terms and Conditions of Course Registration are posted on the NMSU website and available in each term's registration guide.

Payments can be made by mail, web or telephone, as well as in person. Cash, checks, money orders and all major credit cards are accepted.

Those preferring to pay in person may do so at the DACC Cashiers Office (DASR 102B) on the East Mesa Campus or on the NMSU Las Cruces Campus at the University Accounts Receivable Office. Payments are also accepted in person at the Espina Campus, and Gadsden and Sunland Park centers.

Students may pay in full, enter into a payment plan, or provide proof of a third-party payment agreement. Students who do not pay in full or make third party payment arrangements by the payment deadline will automatically be placed on the payment plan. For payment plan options, visit the NMSU website. Fees vary according to the plan chosen.

Any financial aid received will be applied toward balances owed. DACC/ NMSU reserves the right to deny the payment plan to any student who has a poor credit rating or who has been negligent in making payments to the institution for previous debts.

NOTE: Workshops, institutes, and noncredit courses are treated as completely separate sessions. Check the Continuing Education program announcements for the specific noncredit course fees and registration instructions.

Payment Plan

Tuition, fees and other charges posted to the student account may be deferred and paid over the course of the semester by signing up for a payment plan. Students with an account balance of \$200 or greater must sign up for a payment plan by the "Last Day to Drop a Course and Receive a 100% Refund" date which is also known as the Census date. There is a \$25 non-refundable enrollment fee and a 20% down payment due at the time of enrollment for fall and spring semesters and a 33.33% down payment for the summer semester. Equal monthly payments are due on the 15th of each month of the semester. A \$10 late fee is assessed to the student account for late, partial or missed payments. Students who are required to sign up for a payment plan and fails to do so by the deadline will have their current semester courses cancelled.

Late Registration

A late registration fee of \$25 is imposed if registration has not been completed before the late-registration period begins.

Delinquent and Prior-Term Balances

DACC/NMSU reserves the right to cancel the registration of any student who fails to pay, when due, any indebtedness to the institution.

Academic credits, transcripts, and diplomas will be withheld until all financial obligations are paid.

Dishonored Checks/Credit Cards

DACC/NMSU charges a penalty on all dishonored cash instruments. Personal checks will not be accepted from students who have had a previously dishonored check.

Tuition Adjustments, Refunds, and Forfeitures

Students officially withdrawing or dropping courses during a semester or term are eligible for a 100-percent refund of tuition and fees through the deadlines listed online. Go to http://registration.nmsu.edu, click on the drop-down menu for the appropriate semester or term, and select "Important Dates and Deadlines." Students withdrawing from courses after that deadline will not be eligible for a refund and will remain liable for full tuition and fee charges. Non-attendance does not constitute an official course drop or withdrawal. All charges due to DACC/NMSU must be paid before refunds or adjustments will be permitted.

In cases of academic or disciplinary suspension, eligibility for tuition refunds and adjustments will depend on the conditions of the suspension and will be entirely at the option of the institution. Should unforeseen circumstances beyond the reasonable control of Doña Ana Community College or New Mexico State University result in curtailing classes, closing residence facilities, or otherwise withdrawing services that are a normal function of the institution, refunds of any nature will be at the discretion of the college/university administration.

Residence hall rentals and dining hall charges may be refunded in accordance with schedules adopted by these departments.

Program-Related and Course-Related Fees

Course and Lab Fees

Certain courses/labs require an additional fee, which is subject to change. At the time this publication went to press, the fees for the following courses were as follows:

All ONLINE courses	\$25 per credit extra
ARTS 1310	\$25
ARTS 1320	\$25
ARTS 2996	\$25
AUTO 130	\$131.25
AUTO 131	\$131.25
AUTO 255	\$87.50
DAS 115	\$250
DHYG 122, 132, 212, 222	\$400
DMS 170, 180, 270, 280	\$200

NA 104 (Certified Nursing Assistant \$150 lab fee)

NURS 136, 147, 226, 236 \$250 RESP 110 L, 120 L, 230 L, 240 L \$120

Toolboxes, Tool Kits, and Personal Materials

Students enrolled in the Automotive, Dental, Radiologic Technology, Welding, and Heating, Air Conditioning, and Refrigeration programs will be issued tools during the first week of classes. One-third of the total price of the toolboxes or tool kits is due at the time the tools are issued. The remaining toolbox/kit balance must be paid by the end of the semester in two equal installments, usually spaced two months apart. Failure to pay the balance will result in exclusion from registration the following semester. Down payment and subsequent payments for toolboxes/kits must be made at the DACC Cashiers Office in DASR 102B on the East Mesa Campus. Students are responsible for full payment even if they withdraw from the community college. Return of toolboxes/kits will not constitute payment, as used tools cannot be reissued. Call the appropriate academic division for current costs. (Division telephone numbers appear on the Contact Information (p. 8) page.)

Medical Insurance Coverage Not Provided

DACC does not provide medical insurance for students. DACC students are encouraged to obtain their own medical insurance for any potential illness, accident, or injury that might occur while they are enrolled at the college. Visit www.healthcare.gov to shop for, compare costs and coverage benefits of, and enroll in, insurance coverage.

Aggie Health and Wellness Center

DACC students can purchase semester-long access to the services offered by the NMSU Aggie Health and Wellness Center. Visit the following site for pricing information: http://chc.nmsu.edu/for-students/student-health-insurance/

Supplemental Health Insurance

Students who have access to the Student Health Center may choose to buy a commercial insurance policy endorsed by NMSU. This insurance is intended to supplement the Student Health Center service. Dependent coverage is not available through NMSU but may be purchased directly from the insurance company; however, dependents of students are not eligible to use the Student Health Center. Information about this insurance can be found at http://www.uhcsr.com.

AggieFit Membership

AggieFit is a good option for improving one's health while studying at NMSU/DACC. Membership in the AggieFit program provides access to the Activity Center, Aquatic Center, fitness classes provided in both, and participation in our Intramural programs. For additional information, including the fee schedule, visit http://recsports.nmsu.edu/aggiefit/.

Housing

Housing is available to community college students on the same basis as it is for other New Mexico State University students. Rates and other information may be obtained online at http://housing.nmsu.edu/.

Food Services

New Mexico State University, located adjacent to the DACC Espina Campus, offers a number of meal plans and has a wide selection of eateries: http://dining.nmsu.edu/. The DACC Snack Bar operates stores on the Espina and East Mesa campuses.

Financial Aid

The Office of Financial Aid administers a broad spectrum of grant, loan, scholarship, and work-study funding in an attempt to meet the financial needs of DACC's students.

DACC's Financial Aid and Scholarship Services awards financial aid to students according to their individual needs. Parents of students are expected to contribute to their child's education according to their ability, taking into account their income, assets, number of dependents, and other relevant information. Students themselves are expected to contribute from their own assets and earnings, including appropriate borrowing against future income. All information provided to Financial Aid is regarded as confidential.

Students applying for financial aid must complete a Free Application for Federal Student Aid (FAFSA), designed to determine in accordance with state and federal guidelines, the difference between what the student and/or family is expected to contribute and the cost of attending DACC. Among the factors that determine the Expected Family Contribution (EFC) are:

- annual adjusted gross income as reported to the Internal Revenue Service:
- 2. savings, stocks, and/or bonds;
- 3. other assets in the form of a business, farm, or real estate;
- 4. nontaxable income and benefits; and
- 5. student's prior year income and assets.

Students applying for financial aid should complete a FAFSA by visiting www.fafsa.ed.gov/. Priority deadline for FAFSA completion is March 1.

General Eligibility Requirements

To receive financial aid you must demonstrate the following:

- Have a high school diploma or a General Education Development (GED) Certificate, pass a test approved by the U.S. Department of Education, meet other standards your state establishes that are approved by the U.S. Department of Education, or complete a high school education in a home school setting that is treated as a home school or private school under state law. See your financial aid advisor for more information.
- Be enrolled or accepted for enrollment as a regular student working toward a degree or certificate in an eligible program. (You may not receive aid for correspondence or telecommunications courses unless they are part of an associate's or bachelor's degree program.)
- Be a U.S. citizen or eligible non-citizen (state funded scholarships may be available to undocumented students).
- Have a valid Social Security number. If you don't have a Social Security number, you can find out more about applying for one at www.ssa.gov.
- Be meeting satisfactory academic progress (SAP).
- Sign a statement on the FAFSA certifying that you will use Federal student aid only for educational purposes.

- Sign a statement on the FAFSA certifying that you are not in default on a Federal student loan and that you do not owe money back on a Federal student grant.
- · Register with the Selective Service, if required.

No applicants will be denied financial assistance on the basis of age, color, disability, gender, national origin, race, religion, or sexual orientation.

Sources of Financial Aid

GRANTS. The foundation for financial aid is the Federal Pell Grant, available to undergraduate students with documented financial need. Pell Grants range from \$639 to \$6,135 (subject to change each year). In some instances, students may be eligible to receive other types of aid, including the Federal Supplemental Educational Opportunity Grant (SEOG) or Leveraging Education Assistance Partnership Program Grant (LEAP), and/or other miscellaneous grants. These grants are awarded on a first-come-first-served basis to undergraduate students who show exceptional financial need. Typically, all three types of grants do not have to be repaid; funding is limited, however, and it is therefore very important that students complete their financial aid files by the priority deadline. For more information, contact DACC's Financial Aid and Scholarship Services Office, or visit dacc.nmsu.edu/fa on the Web.

SUBSIDIZED AND UNSUBSIDIZED FEDERAL DIRECT LOANS. These loans are need and non-need-based, long-term loans available to undergraduate students. Students receiving a subsidized or unsubsidized Federal Direct Loan, must complete an initial In-Person Entrance Counseling session and then a yearly online session every year after that. All students wishing to receive a Federal Stafford Loan must also complete a Master Promisory Note (MPN). Both the MPN and the online entrance counseling can be found at https://studentloans.gov. In addition, students must complete an exit interview upon graduation or withdrawal from the University. Repayment of a Stafford Direct Loan begins six months after graduation or six months after enrollment drops below 6 credits for undergraduate students. The interest rate is variable but will not exceed 8.25%. More information will be available at the time the loan is made.

WORK-STUDY PROGRAMS. The Federal Work-Study Program provides employment opportunities for selected undergraduate students with demonstrated financial need. The New Mexico Work-Study Program also provides employment opportunities for students; however, only New Mexico residents are eligible to participate in the program. Both federal and state work-study are limited in funding and can be awarded to those who are meeting Satisfactory Academic Progress requirements, have requested work-study from the Financial Aid Office, and completed their financial aid files.

For more information on the U.S. Department of Education student aid programs, go to http://studentaid.ed.gov or see the DACC Financial Aid web site at http://dacc.nmsu.edu/fa.

Financial Aid Awards

All financial aid awards are based on information provided by the student and parents, availability of funds, and eligibility requirements. Any award may be revised based on changes in enrollment, cost of attendance, family contribution, or failure to meet satisfactory academic progress. Withdrawals or reductions in enrollment may affect an award or any future awards. Financial aid will not pay for audited courses or some repeats.

SCHOLARSHIPS. All scholarships are contingent upon availability of funds. Individual scholarship criteria are subject to change. Students

are encouraged to apply online at http://scholarships.nmsu.edu/. The online application for the upcoming year becomes available in October and remains open year round. Preference is given to those who apply prior to March 1. Only one application is necessary to be considered for most scholarships. Students who apply for scholarships are encouraged to fill out a FAFSA application as some scholarhips require 'need'.

- The New Mexico Legislative Lottery Scholarship. Student must enroll full-time at a public post-secondary educational institution in New Mexico within sixteen months of graduation or receipt of a high school equivalency credential and maintain continuous full-time enrollment. First time enrollment within the sixteen month period following graduation must be at a New Mexico public post-secondary educational institution. If the student enrolls full-time at ANY out of state institution or private in-state institution the student shall forfeit eligibility. Students must enroll in and earn 15 credit hours per semester at a four-year New Mexico public university or 12 credit hours per semester at a two-year New Mexico public community college. Students must maintain a 2.5 or greater cumulative grade point average (GPA) each semester of enrollment. If a student continues to meet criteria, Legislative Lottery scholarship can be paid for 3 semesters at DACC and then can be transferred to a public 4 year institution for another 4 semesters. Students with disabilities may qualify for reduced credit hour requirements and additional semesters of the scholarship.
- Private Scholarships. Thanks to the generosity of our private donors, DACC is able to offer a wide array of scholarships to assist a diverse student population pursuing a higher education. Scholarships are primarily awarded according to merit, as successful candidates are selected on the basis of academic achievement, personal leadership, and financial need.
- DACC Institutional Scholarships. Scholarships are awarded on a first-come, first-served basis. Applicants must be pursuing a certificate or associate degree at DACC, have at least a 2.5 cumulative GPA, and be a New Mexico Resident, as well as a US Citizen or eligible non-citizen.

WORKFORCE INVESTMENT ACT (WIA) INITIATIVES. These federally funded programs assist students pursuing careers in technical-vocational or associate degree programs. In some instances, students may be assisted for GED and noncredit courses. Sponsored students may receive financial support for tuition and fees, textbooks, laboratory and classroom supplies, tools and safety equipment, and testing and licensor fees. They may also receive a supportive service allowance to cover transportation, child care, and subsistence costs.

Students in the local and surrounding area may apply for WIA eligibility at:

New Mexico Department Workforce Solutions 226 S. Alameda Blvd. Las Cruces, N.M. 88005 (575) 524-6250.

Those living outside the Greater Las Cruces Area should visit their local Department of Labor Office. For more information, call the community college at (575) 527-7535.

Financial Aid Satisfactory Academic Progress

Federal regulations require that financial aid recipients meet certain academic standards to be eligible for Federal financial aid. To ensure that financial aid recipients are making satisfactory academic progress, academic transcripts are reviewed at the end of each term to determine eligibility for the next term. All terms of attendance are reviewed,

including periods in which the student did not receive financial aid. All transfer credit hours are taken into account when satisfactory progress is reviewed.

- Qualitative Progress. Undergraduate students must maintain a cumulative GPA of at least 2.0 (a C average). Grade point values are:
 A = 4.0, B = 3.0, C = 2.0, D = 1.0, F = 0. Grades of I, CR, RR, PR, NC, W, AU are not calculated in the GPA. Adjusted Credit Options are not taken into consideration for financial aid purposes.
- Completion Rate. Students must complete a minimum of 70 percent of all coursework (registered credit hours) attempted at DACC/NMSU. Any course with a grade of withdraw (W), incomplete (I), repeats (RR), failure (F), audit (AU), or no credit (NC) is not considered completed coursework. Repeated courses are included in the calculation.
- Maximum Time Frame. Undergraduate students must complete their program within 150 percent of the credit hours required by the program. (Most Associate degree programs at DACC require 60 hours, therefore maximum allowable attempted hours would be 90 credits.) Students who have reached the maximum allowable time will be suspended from receiving financial aid. Up to 30 developmental/remedial hours are excluded from this calculation. Total attempted hours including repeated courses and transfer coursework are included in the student's maximum time frame calculation.
- Student Liability. Recipients of financial aid grants and loans
 who drop credits or withdraw may be required to return all or a
 portion of awarded Title IV funds. Further information regarding the
 return of Title IV funds is available on the NMSU web site at http://fa.nmsu.edu/resources/return-of-title-iv-funds/

Financial Aid Suspension

Students are suspended from receiving financial aid if they do not meet satisfactory academic progress (SAP) standards. Students on financial aid suspension will not receive any form of Federal or state financial aid (grants, loans, work-study). Financial aid eligibility is reinstated when all standards of satisfactory progress are met.

The Appeals Process

Students suspended from financial aid may appeal the suspension if there are extenuating circumstances affecting their progress. Students who would like to appeal the suspension must submit an appeal form, available at http://dacc.nmsu.edu/fa, and all required documentation to DACC Financial Aid prior to the semester deadline. Deadlines for each semester can be found by calling the DACC Financial Aid Office. A committee will review the appeal and may grant reinstatement of financial aid based on extenuating circumstances that directly contributed to deficient academic performance. Appeals are evaluated on a term-by-term basis.

Veteran Students

DACC degree and certificate programs are approved by the Department of Veterans Affairs (state approving agency) for enrollment of persons eligible to receive veteran education benefits.

For further information concerning approved programs and the application process, eligible persons should contact the DACC Veterans Program Office (V.A. Office), located in Room 111 of the DASR Building on the East Mesa Campus (575) 528-7081.

RESPONSIBILITY OF VETERAN STUDENTS. Students must be pursuing a degree or certificate in a specific program to be eligible to receive benefits. Admission procedures for veterans and other eligible persons

are the same as those for all students. Degree plans from academic advisors must be submitted prior to any verification. For continued certification, students must submit an updated degree plan, registration document, and detailed class schedule to the DACC V.A. Office each semester. Any veteran or dependent receiving benefits who earns a punitive grade may be liable for over payment.

Veterans must notify the DACC V.A. Office when any one of the following occurs:

- 1. Dropping or adding course(s)
- 2. Withdrawing from course(s)
- 3. Discontinuing regular class attendance
- 4. Changing programs (academic majors)

V.A. educational benefits are payable for regular attendance in courses that are part of the veteran's program (major) curriculum. V.A. educational benefits are not payable for:

- 1. Classes not attended regularly
- 2. Classes that are dropped
- 3. Repeat of a course for which a passing grade was received
- Classes for which credit is received through successful completion of a proficiency test or grade by examination
- 5. Classes taken on an audit basis
- Classes taken that are not part of the veteran's program (major) curriculum

Distance Education

The Schedule of Classes indicates which courses will be offered via distance education technologies during any given semester or term. **NOTE:** A \$25-per-credit fee is charged for courses that are taken online.

DACC online programs and the Virtual Learning and Instructional Technology (VLIT) Department is committed to the success of DACC's distance education efforts. The VLIT staff provides online course support through Web-based and face-to-face training sessions and assistance for faculty and students.

Visit the VLIT website at http://dacc.nmsu.edu/vlit/, for helpful resources such as these:

- Frequently Asked Questions (FAQ) database of the most commonly asked questions
- Schedule for student face-to-face Canvas trainings at the beginning of each semester, and access to online Canvas training
- Questions or Issues: Please email all questions/issues to <u>vlit@nmsu.edu</u> (%20vlit@nmsu.edu) or call the office at (575) 528-7007 and leave a detailed message. Students can also contact the <u>NMSU Help Desk</u> (https://help.nmsu.edu/) or (575) 646-1840

The VLIT staff can be consulted by phone at (575) 528-7007 or in person. The VLIT office on the Espina Campus is located in DACL 270, and on the East Mesa campus it is located in DAAR 203D.

Visit http://dacc.nmsu.edu/online-programs for information on how to become an online student and what programs are offered fully online.

Student Services Offered at DACC First-Year Orientation

At First-Year Orientation events, students will attend information sessions, meet with an academic advisor, and register for classes. Students will also learn about college life and campus resources. For information, please contact the Orientation Advisor at (575) 527-7536 or via email at admissions@dacc.nmsu.edu.

Services for Students with Disabilities

The Student Accessibility Services (SAS) at DACC coordinates accommodations for qualified students under the Americans with Disabilities Act (ADA, 1990) and section 504 of the Rehabilitation Act of 1973. This program may not be able to meet all needs and requests; however, a reasonable effort will be made to facilitate physical and programmatic access. To provide quality services, SAS procedures include self-identification of persons with disabilities and determination of their eligibility for services. Students with disabilities must request services and provide appropriate documentation from public schools, agencies, physicians, psychologists, and/or other qualified diagnosticians.

Qualified students may receive the following forms of free assistance/ accommodations: sign-language interpreters, note-taking assistance, readers, enlarged print, E-text, audio text, computer/software adaptations, alternative assessments and evaluations, alternative keyboards, accessible furniture, priority registration, and referral and liaison for many of these services.

More information may be obtained from the SAS office on the Espina Campus, DASH 117 (575) 527-7548. Students also may contact the East Mesa SAS office, DASR 104A (575) 527-7548, or the student services specialists at the Gadsden Center (575) 882-6809 or the Sunland Park Center (575) 874-7787.

Tutoring Services

Tutoring Services provides assistance to support and encourage students in becoming successful, confident, and active learners. Free tutoring is available for DACC credit-enrolled students through the Academic Readiness Centers located at the East Mesa Campus, Espina Campus, and Gadsden and Sunland Park centers. To obtain services or additional information, visit or call one of the centers:

- · Las Cruces East Mesa Campus, DAAR 201, phone (575) 528-7275
- · Las Cruces Espina Campus, DASH 116, phone (575) 527-7646
- Gadsden Center, DAGC 104, phone (575) 882-6806
- Sunland Park Center, DASP 107, phone (575) 874-7806

Library Services

The DACC Library provides two physical locations for students and members of the community. One is situated on the Las Cruces Espina Campus and the other one is on the Las Cruces East Mesa Campus. Visits to DACC satellites are also made; a schedule is posted at the start of each semester.

Library users enjoy an open atmosphere where they can access in-house and electronic materials, while being assisted by friendly staff. With its supportive learning environments and emphasis on Internet-based resources, the DACC Library provides research assistance, information

literacy instruction, and other library services to DACC students at all of its campuses, as well as to distance learners.

The library website http://dacc.nmsu.edu/library/ is an information resource portal that provides seamless, integrated access to a wide variety of electronic databases and web-based resources. The portal also supports DACC's academic programs at all its locations and is accessible off campus, as well.

The DACC Library shares an online library catalog with all NMSU campus libraries. There is express delivery service among the campuses, and students can pick up materials from their most convenient location. Interlibrary loan services are available to all students for materials not owned by DACC or NMSU libraries.

Other online resources include databases containing magazine and newspaper articles; electronic book collections that provide access to more than 30,000 e-books on a wide range of subjects; and tutorials covering APA citation style and other "how-to" research topics. While off campus, students can access many of these resources by logging into the Library's EZProxy server using their NMSU Banner ID username and password.

The college ID serves as a library card for checking out books, which are loaned for three weeks, and audiovisual materials, which are loaned for one week. Extended loan periods are available to Crimson Scholars.

At the Espina Campus, the Library is located in the Learning Resources Building, DALR 260, and at the East Mesa Campus, the Library is located in the Academic Resources Building, DAAR 203. During the fall and spring semesters, both locations are open from 8 a.m. to 7 p.m. Monday through Thursday, 8 a.m. to 5 p.m. on Friday, and 10 a.m. to 2 p.m. on Saturday. Both library locations are closed on Sundays. Call (575) 527-7555 at the Espina Campus or (575) 528-7260 at the East Mesa Campus for summer hours or for schedule updates. Holiday and interim hours will be posted.

Student Computer Access

DACC has more than 1,700 computers for student use. Most are located in classrooms, where they are integrated into the teaching process. Additionally, all DACC campuses and centers have open computer laboratories, affording access to student email, Internet, and Canvas, as well as other services provided through NMSU's Information and Communication Technologies unit (see 'Information and Communication Technologies," under "Student Services on the NMSU Campus (p. 24)"). Students will find software for word processing, spreadsheets, drawing and image processing, presentations, and scientific computation, as well as other tools to assist them in having a successful college career.

Wireless network access is provided at all DACC campuses and centers.

During the fall and spring semesters, hours for open computer labs are as follows.

- Espina (575) 527-7561 and East Mesa campuses (575) 528-7265: 8 a.m. to 8 p.m. Monday through Thursday, 8 a.m. to 5 p.m. Friday, and 10 a.m. to 3 p.m. Saturday; closed Sunday.
- Gadsden (575) 882-6802 and Sunland Park (575) 874-7783 centers: 8 a.m. to 9:45 p.m. Monday through Thursday, 8 a.m. to 4:45 p.m. Friday, and 7:30 a.m. to 2 p.m. Saturday; closed Sunday.
- Chaparral Center (575) 824-2000: 8 a.m. to 9 p.m. Monday through Thursday and 8 a.m. to 5 p.m. Friday; closed Saturday and Sunday.

 Hatch Center. (575) 267-5660: 8 a.m. to 6 p.m. Monday through Thursday and 8 a.m. to 5 p.m. Friday; closed Saturday and Sunday. Summer hours are usually reduced.

These schedules are subject to change. Current hours of operation for all campuses and centers are posted on the Web at dacc.nmsu.edu/computer-labs.

Books and Supplies

Students are responsible for buying their own textbooks, routine school supplies, and personal items. Two well-equipped bookstores managed by Barnes & Noble are located in DACL 170 on the Las Cruces Espina Campus and in DAAR 102 on the Las Cruces East Mesa Campus. They are arranged for self-service, with textbooks displayed by department, course number and section number. Textbooks for some courses may only be available at the specific campus where the course is being taught. The DACC Bookstores only carry textbooks for courses offered at DACC and do not carry textbooks for NMSU Main, Alamogordo, Carlsbad or Grants campus. With the exception of Grants campus, all branches of NMSU have their own campus bookstores which carry books for their specific campus or can be ordered from the bookstore website. In addition to textbooks, the bookstores sell calculators, educational supplies, and other types of merchandise.

For current bookstore hours or other information, call (575) 527-7692 for the Espina Campus Bookstore, (575) 528-7253 for the East Mesa Bookstore, or visit http://nmsu-lascruces.bncollege.com.

Student Government/Student Activities

The Student Government Association of Doña Ana Community College is a dynamic and responsive student government that provides students and student organizations a foundation for enhanced learning and leadership development through educational and social activities, communication, and programs.

The Student Government Association is located on the East Mesa Campus in DAEM 212. For more information, call (575) 528-7618 or visit http://dacc.nmsu.edu/sqa/.

Campus Security

Security staff is available to all students, faculty, and staff at the various DACC locations. If you have a security issue, need an escort, or require a guard for safety purposes, do not hesitate to call (575) 527-7777 from any DACC campus or center.

The Security Office, located on the DACC Espina Campus in DATS 153E (575) 528-7029, is open Monday—Friday, 8:00 a.m.—5:00 p.m. For more information, visit http://dacc.nmsu.edu/business-office/security/.

Citywide Transit/Bus Services

Full-time DACC students enrolled in 12 credits or more for either the fall or spring semesters or at least 6 credits for the summer semester are eligible to receive a free DACC U-Pass card. This U-Pass card allows students to utilize RoadRUNNER Transit for free all over Las Cruces for the entire semester. Part-time DACC Students enrolled in at least 6 credits for either the fall or spring semester or at least 3 credits for the summer semester are eligible to purchase a DACC U-Pass card for only \$15. Students can obtain their U-Pass card by presenting their valid student ID at either of the following two locations:

DACC East Mesa Campus Cashier's Office

DASR Building Room 102 Phone (575) 527-7516 Hours: 8:00am – 4:30pm M-F

NMSU Parking/ID Card Services

1400 E. University (corner of Jordan St.) Inside Bookstore 2nd Floor

Phone (575) 646-4835 Hours: 8:00am - 4:30pm M-F

To view information regarding RoadRUNNER services, maps, and schedules go to: http://www.las-cruces.org/1314/RoadRunner-Transit

Ben Archer Health Center

Ben Archer operates a School Based Health Center (SBHC) at the DACC Espina Campus. Medical services and mental health counseling is available to

students, staff, and families. The SBHC is located at Alex Sanchez Hall (DASH) in Room 83. Services available at this site include:

- · Sick Visits
- · Sports Physicals
- · Stress Management
- Adjustment Issues
- · Reproductive Health
- Labs
- Nutrition
- · Chronic/Acute Illness Care
- · Attention and Concentration
- · Relaxation Skills
- School Stress
- · Relational Conflict
- · Substance and Alcohol
- Grief and Loss
- Asthma Education
- · Individual, Group, &Family Therapy
- · Career Counseling

Regular Clinic Hours are M-F 8:15 am - 4:15pm.

Student Services on the NMSU Las Cruces (Main) Campus

This section describes the services offered on the NMSU campus that are most commonly used by DACC students. For a complete listing of NMSU student services, consult the NMSU Las Cruces Academic Catalog.

ID Card Services

The Aggie ID Card is the primary source of student identification on campus. Depending on the options purchased, this ID card can serve as a membership card for meals and as proof of eligibility for access to athletic events. It can hold Aggie Ca\$h, work as a key in some residential buildings, and provide access to other student services. Please visit http://idcard.nmsu.edu for more information.

Aggie Ca\$h is a pre-paid account that allows you to use your Aggie ID Card to make convenient purchases at locations all over campus without the need for cash. The Aggie ID Card can also be enhanced to act as a Wells Fargo debit card. For additional information, visit the ID Card Office

on the second floor of the NMSU Barnes & Noble Bookstore on the NMSU Las Cruces Campus.

Parking Office

A NMSU parking permit is required to park on DACC's Espina Campus in parking lots or curbside on streets. Parking meters require payment. Free parking is available near the Pan American Center. The campus parking map is available online at http://park.nmsu.edu/. Parking regulations are enforced between the hours of 7:30 a.m. and 4:30 p.m. Disabled parking spaces, emergency/fire zones, service zones and yellow curbs are enforced 24 hours a day. Parking Regulations are available online at http://park.nmsu.edu/.

Information on purchasing a NMSU parking permit is available at http://park.nmsu.edu or at the Parking Department located on the second floor of the NMSU Barnes & Noble Bookstore, Monday through Friday from 8:00 a.m. to 4:30 p.m.

Aggie Transit is a free campus shuttle service available to all students. Bus route maps are available at http://park.nmsu.edu/.

Transportation and Parking Services is responsible for issuing parking permits, enforcing parking regulations, and developing parking lots, as well as maintaining information related to the university fleet.

Aggie Health and Wellness Center (AHWC)

The Aggie Health and Wellness Center (AHWC) provides integrated comprehensive medical, psychological and recreational activity services to the students of New Mexico State University. The AHWC is located on the NMSU Las Cruces campus, with the main entrance located on the northeast corner of the building, at the corner of McFie and Breland Drive, across the street from Zuhl Library.

The AHWC is a nationally accredited out-patient ambulatory facility offering services in:

- Employee Assistance Program (EAP)
- Health education, outreach and programming
- · Immunizations (travel and preventative)
- Medical clearance for NMSU research, education and employment purposes
- · Medical illness and prevention
- · Mental health and counseling
- · Treatment and case management of workers compensation injuries
- · Women's health

All DACC students enrolled in six or more credit hours will have the option to purchase access to AHWC services at the time of registration, or later at the Aggie Health and Wellness Center itself. Part-time foreign students, regardless of classification, must pay the fee for AHWC services.

For further, call (575) 646-1512, email campus_health@nmsu.edu, or visit https://wellness.nmsu.edu/.

Information and Communication Technologies (ICT)

ICT maintains computer labs throughout the Las Cruces Campus that provide PCs and Macs loaded with computer software to meet the academic needs of NMSU students. Access to other campus resources include wireless zones, account management, equipment checkout,

and an online learning environment. Student admissions, registration, financial aid, and grades are easily accessible through the myNMSU portal. In addition, ICT offers student discounts on the purchase of computers.

For further information, call (575) 646-1840, write to help@nmsu.edu, or visit http://ict.nmsu.edu/.

Online student admission is available at http://prospective.nmsu.edu/. Registration functions, grade reports and e-mail may be accessed via the Web at https://my.nmsu.edu/.

TRIO Student Support Services Program

The TRIO Student Support Services program helps ensure that program participants succeed at NMSU. Services include the following:

- MENTORING participants meet with a mentor each week for assistance in adjusting to college, learning and using campus resources, developing effective study skills, accessing financial aid, using academic peer advising, staying motivated, and dealing with personal issues associated with college.
- TUTORING individual tutoring is available by appointment in science, math, engineering, agriculture, social sciences, humanities, business, and foreign languages. Tutors are certified by the College Reading and Learning Association.
- TUTORING/COMPUTER LAB complete assignments, check e-mail, drop in for tutoring.
- CULTURAL ACTIVITIES participants receive tickets to cultural/ educational activities such as plays, dance productions and symphonies.
- EQUIPMENT LOANS laptops, tape recorders, and programmable calculators are available to participants.

To qualify for the program, the applicant must be a first-generation college student (neither of whose parents received a four-year baccalaureate degree), meet income guidelines set by the US Department of Education, demonstrate an academic need, or have a learning or physical disability. Admission to the TRIO Student Support Services program is highly competitive with only 350 slots available for eligible students. Students should apply early in the Hardman Jacobs Undergraduate Learning Center, room 128, on the NMSU Las Cruces Campus. Visit the TRIO web site at http://ssc.nmsu.edu/trio-student-support-services/, or call (575) 646-3136.

Office of International and Border Programs (IBP)

The Office of International and Border Programs oversees the comprehensive internationalization of the university. It is the primary unit responsible for the welfare of incoming international students and outgoing education abroad students. IBP also represents the university with U.S. government agencies, foreign governments, international education professional associations and the private sector concerning international activities. The office also advocates for effective practices, policies and procedures to internationalize the university. The major program areas of the office are:

COMMUNITY OUTREACH AND PUBLIC SERVICE – IBP adheres to the land-grant philosophy by providing programs and services to increase international understanding and awareness in the local and campus

community, including southern New Mexico and the state of Chihuahua, Mexico.

EDUCATION ABROAD PROGRAMS AND EXCHANGE STUDENT SERVICE – IBP's Education Abroad Office oversees all study, research, internship and service abroad programs, as well as coordinates faculty led study abroad programs through its Faculty Led International Programs (FLiP) office. This office also coordinates programs and services for visiting exchange students.

INTERNATIONAL INITIATIVES, DEVELOPMENT AND COOPERATION – IBP facilitates the interests of faculty who wish to participate in international interdisciplinary projects requiring technical assistance, training or public outreach. This includes project identification, proposal development, project management and development of international cooperative agreements with international entities or institutions.

INTERNATIONAL STUDENT AND SCHOLAR SERVICES (ISSS) – IBP's ISSS Office is charged with ensuring that the needs of NMSU's international students and scholars are met. This includes orientation, advising and institutional compliance with U.S. Department of State and U.S. Department of Homeland Security regulations as they pertain to the F and J visa programs.

US-MEXICO BORDER PROGRAMS – IBP is responsible for coordinating the university's involvement in US-Mexico cooperative projects including research, economic development and educational outreach.

For more information, contact the Office of International and Border Programs at (575) 646-7041, or visit their website: https://ibp.nmsu.edu.

NMSU Campus Dining

Commuter students and those living on campus will find different meal plans that suit their lifestyles. A dining contract runs for the whole academic year, and charges are applied to a student's university account every semester. For more information visit the Web site http://dining.nmsu.edu/.

In addition to the meal plans, food service is available at various locations throughout the campus. Students may use cash, NMSU Aggie Ca\$h, the NMSU Enhanced Aggie ID Card, a credit card, and, in most areas, the Aggie Dining Dollars that are included with the meal plan package. Food service location hours are posted at http://dining.nmsu.edu/ under "Food Guide." Additional information can be obtained online at http://idcard.nmsu.edu/, or by contacting the ID Card Office at (575) 646-4835, or by visiting their office on the second floor of the NMSU Barnes & Noble Bookstore on weekdays between 8:00 a.m. and 4:30 p.m.

Other Programs and Services at NMSU

- TRANSCRIPT EVALUATION, STUDENT RECORDS AND DETERMINATION OF RESIDENCY:
 (755) 646 6414
 - NMSU Student Records Office, (575) 646-3411 http://nmsu.edu/registrar
- HOUSING FOR SINGLE AND MARRIED STUDENTS: NMSU Housing and Residential Life, (575) 646-3202 http://housing.nmsu.edu/
- STUDENT ACCOUNTS INFORMATION: University Accounts Receivable, (575) 646-4911 http://uar.nmsu.edu

· ETHNIC PROGRAMS INFORMATION:

- American Indian Program, (575) 646-4207 http://aip.nmsu.edu
- Black Programs, (575) 646-4208 http://blackprograms.nmsu.edu
- Chicano Programs, (575) 646-4206 http://chicano.nmsu.edu

· CORBETT CENTER/CAMPUS INFORMATION:

 Corbett Center Information Desk, (575) 646-4411 http://ccsu.nmsu.edu

DACC Locations East Mesa Campus

2800 N. Sonoma Ranch Blvd. Las Cruces, N.M. (575) 528-7000

The East Mesa Campus is home to the following associate degree and certificate programs:

- the <u>Associate of Arts</u> (p. 112) and <u>Associate of Science</u> (p. 115) degree programs,
- · Business Management (p. 133),
- · Computer and Information Technology (p. 144),
- · Creative Media Technology (p. 164),
- · Criminal Justice (p. 178),
- · Culinary Arts (p. 186),
- · Drafting and Design Technologies (p. 206),
- · Early Childhood Education (p. 218),
- Education (p. 223),
- Emergency Medical Services (p. 245),
- Fire Science Technology (p. 259),
- · Health Information Technology (p. 267),
- · Hospitality and Tourism (p. 276),
- · Hospitality Services Management (p. 280),
- · Law Enforcement (p. 178),
- Office Administration Technology (p. 287)
- Pre-Business (p. 297)

In addition, DACC Student Services is located on this campus, as well as central administration. The campus has a bookstore, library, computer labs, Academic Readiness Center (student tutoring), and a 400-seat auditorium.

BUS SERVICE TO THE EAST MESA CAMPUS: During regular semesters, the DACC Shuttle provides free transportation for students between Mesilla Valley Mall and the East Mesa Campus. For current time tables, visit http://www.las-cruces.org/, select "Departments" on the top bar, and then click "RoadRUNNER Transit" under the "Transportation" heading.

Espina Campus

3400 S. Espina St. Las Cruces, N.M. (575) 527-7500 Situated adjacent to New Mexico State University, the DACC Espina Campus is home to the following associate degree and certificate programs:

- · Automotive Technology (p. 123),
- · Allied Heatlhcare Assistant (p. 102)
- · Dental Assistant (p. 190),
- · Dental Hygiene (p. 193),
- · Diagnostic Medical Sonography (p. 198),
- · Electrical Programs (p. 235),
- · Electronics Technology (p. 238),
- · General Engineering (p. 264),
- · Heating, Ventilation, Air Conditioning and Refrigeration (p. 270),
- · Public Health (p. 299),
- · Radiologic Technology (p. 303),
- · Respiratory Therapy (p. 307),
- · Water Technology (p. 311), and
- · Welding Technology (p. 316).

Also located on this campus are a library, computer labs, Academic Readiness Center (student tutoring), and the Quintana Learning Center, which provides adult education and helps prepare students to undertake college-level studies. A full complement of student services is offered on this campus.

South County Centers

Gadsden Center

1700 E. O'Hara Rd. (I-10 and State Hwy. 404) Anthony, N.M. (575)-882-3939

Sunland Park Center

3365 McNutt Rd. Sunland Park, N.M. (575)-874-7780

These centers offer freshman- and sophomore-level coursework in vocational, technical, developmental, and general education. A number of DACC certificates and associate degrees are offered, as well. The centers also provide concurrent enrollment (dual credit) programming for the Gadsden School District. ESL, GED, and citizenship classes for the border area are available through the Adult Education program, also housed at the centers. Refer to the section titled, "Adult Education (p. 320)," in this catalog for a full listing of services. These centers also provide a Student Success Center (student tutoring), computer labs, and library support services.

Attending one of the south county centers is equivalent to attending one of the Las Cruces campuses of DACC. The same procedures and regulations apply. Students attending the Gadsden Center or the Sunland Park Center may attend classes at any other DACC or NMSU campus without completing additional admissions procedures. Students may attend one or more campuses and/or centers simultaneously; however, the total credit-hour load may not exceed that stipulated by the normal class-load policy.

All students currently attending, or planning to attend, one of the south county centers also may use the student services and tutoring available at either of the Doña Ana Community College campuses in Las Cruces.

An advisor is available at the south county centers to advise students as they make career, program, and scheduling choices.

Chaparral Center

755 Prescott Anthony Dr. Chaparral, N.M. (575) 824-2000

Located near the southeastern corner of Doña Ana County, the Chaparral Center, which opened in Spring 2012, is situated adjacent to Chaparral High School. The 6,200-square-foot center, which houses a computer lab and a computer classroom, offers freshman- and sophomore-level coursework, including dual-credit courses for high school students. It also is the site of the Adult Education program in Chaparral. Refer to the section titled "Adult Education (p. 320)" in this catalog for a full listing of services.

Mesquite Center

2345 E. Nevada St. Las Cruces, N.M. (575) 528-7479

Located at DACC's Workforce Center, the Mesquite Center focuses on preparing low-income students for further education, while also developing work-related skills. Transitional classes and workshops involving work-readiness skills and college preparation allow students to eventually move on to college and careers. Classes in ESL and preparation for the high school equivalency diploma exams are offered on site through DACC's Adult Education Division.

Workforce Center

2345 E. Nevada Ave. Las Cruces, N.M. (575) 527-7776

The following associate degree and certificate programs are offered at this site:

- · Aerospace Technology (p. 99),
- <u>Automation and Manufacturing Technology</u> (p. 119),
- Building Construction Technology (p. 127), and
- Environmental and Energy Technologies (p. 253).

The Workforce Center also offers customer-driven, lifelong-learning opportunities, which serve as a bridge between our diverse community and the college. The aim is to be business-solution partners for Doña Ana County. DACC's <u>Customized Training</u>, <u>Community Education</u> (p. 320), <u>Small Business Development Center</u> (p. 322), and <u>Truck Driving Academy</u> (p. 320) currently occupy the Workforce Center. Together, these programs address everything from the start-up needs of small businesses to the larger training needs of established, growing businesses. Many business assessment tools are available, as well as training space and commercial space on a short-term, rental basis for outside organizations.

The NMSU System Academic Regulations

The following regulations are effective with the publication of all the NMSU system catalogs, this includes the Las Cruces-Academic Catalog, Alamogordo Community College, Carlsbad Community College, Dona Ana Community College, and the Grants Community College catalogs.

All regulations in this section of the catalog pertain to all the campuses housed with the NMSU System, this means that information for students pursuing Associate Degrees/Certificates, Bachelor's Degree, and Graduate Degrees/Certificates is within the section of the catalog.

The regulations section is broken down into different areas:

- · Academic Programs of Study
- · Registration
- · Academic Performance and Progress
- Grading
- · Withdrawals
- · Degree Applications, Graduation & Commencement
- · Academic Standing and Probation
- · Academic Misconduct and Grievances
- · The University Student Records Office

NMSU offers Associate, Baccalaureate, Master's and Doctoral degrees. NMSU also offers Certificates at the associate and graduate levels. Requirements for specific degrees and other designations are set forth by this catalog for the NMSU-Las Cruces (main) campus and the corresponding catalogs for the NMSU Community Colleges (Alamogordo, Carlsbad, Dona Ana and Grants).

Additional Degree Designations

As part of a degree program, students may also earn additional degree designations indicating fields of study such as majors, minors or concentrations. A major is defined as a recognized area of study in which there is an extensive and well-developed curriculum offered at the university, as well as adequate library resources and support services. A minor is based on courses that encompass a recognized field of study outside the student's major. A concentration is based on a collection of coursework in an area that is part of a major program of study. Degrees and additional designations awarded, limited to majors, minors, and concentrations, will be noted on the student's transcript.

Catalog Effective Period

Beginning with 2020-2021 catalog each subsequent annual catalog edition is effective Summer Session I through Spring Semester and is considered active for an eight year period for all campuses. Curricular requirements (course requirements and number of credits required) for a specific degree or other designation may be met by completing all of the course requirements as set forth by the catalog in effect at first matriculation, or any subsequent catalog, provided the selected catalog is considered active when the requirements for graduation are met. For all other matters, the current catalog is controlling. NMSU reserves the right to withdraw courses at any time, change fees, rules, calendar, curriculum, degree programs, degree requirements, graduation procedures and any other requirements affecting students. Except as otherwise stated here, changes will become effective whenever the proper authorities so determine and will apply to both prospective students and those already enrolled.

Application for Degree/Graduation or Certificate

Upon completion of all requirements for degrees and certificates, students will not receive their degrees automatically. In order to receive the degree or certificate, students must submit an application and pay the required fee in the semester in which the student expects to graduate

or complete the degree or certificate requirements. Specified in the academic calendar for each semester is the deadline for all applications. The application must indicate/ note all designations earned. After awarding of the degree, you cannot add any additional designations.

Students who will be completing two degrees/certificates in the same semester must apply for graduation and pay the fee for each degree separately. Students applying for graduate degrees or certificates must satisfy requirements as described in the Master's, Certificates, and Doctoral Degree sections below.

Students who do not meet requirements or elect not to graduate after filing an application need to re-apply in a subsequent semester and pay another fee.

Multiple Degrees and Designations

A student may earn more than one degree or multiple degree designations by completing all of the requirements in an appropriate catalog for each degree or designation. Students completing requirements for more than one degree must apply for and pay the application fee for each degree to be awarded. Upon completion of all requirements, multiple majors for a single degree (e.g., B.A., Major in Ant; Major in Anthropology) and multiple bachelor's degrees (e.g., B.A. and B.S.) will be noted on the student's academic record/transcript and may also be granted at one commencement.

Degree Revocation

The Board of Regents reserves the right to revoke a degree should it be determined upon investigation that the degree requirements were not properly met. A degree revocation must be in accordance with NMSU policy and related rules.

Honorary Degrees

Ceremonial Honorary Degrees may be awarded in accordance with NMSU policy and rules as set forth in the NMSU Regents Policy Manual and the related Administrative Rules and Procedures.

Community College Certificate

A Community College may offer two types of certificates, the Certificate of Achievement and/or the Certificate of Completion. Certificates may be awarded independently from any degree program.

Certificate of Achievement

The Certificate of Achievement is a program of study less than 16 credits and is not eligible for Federal financial aid. This Certificate provides employment related and/or career enhancing skills necessary to succeed in a job or a chosen field of study. These courses can be a subset of those required for a corresponding Certificate of Completion or Applied Associates Degree. These certificates are recorded on the student's transcript. The following requirements apply to all certificates of achievements:

- Minimum Credit Hours: The number of credit hours varies from certificate to certificate but must be fewer than 16 credits. Students must successfully complete the total number of credit hours as outlined in the respective catalogs and sections describing these certificates.
- GPA requirement: Students must successfully complete all courses for the certificate as outlined in the catalog and and have a cumulative GPA of 2.0 or greater in all courses required for the

- certificate, but may have a cumulative GPA of less than 2.0 for courses taken outside of the certificate.
- 3. Residency: A minimum of 6 credits earned toward the certificate must be completed at NMSU or one of its community colleges. If the certificate requires fewer than 6 credits, all credits must be completed at NMSU or one of its community colleges. Individual academic programs may have additional requirements.

Certificate of Completion

The Certificate of Completion requires a minimum of 16 credits (other Title IV requirements must be met to be eligible for financial aid) and has been approved through the academic review process. These courses can be a subset of those required for a corresponding Applied Associates Degree. These certificates are recorded on the student's transcript.

Requirements for certificates are found in the respective catalogs and sections concerning these programs. The following requirements apply to all certificates.

- Minimum Credit Hours: The number of credit hours varies from certificate to certificate. Students must successfully complete the total number of credit hours as outlined in the respective catalogs and sections describing these certificates.
- GPA requirement: Students must successfully complete all courses for the certificate as outlined in the catalog. In addition, students must have a cumulative GPA of 2.0 or better in all courses taken at NMSU or one of its community colleges.
- 3. Residency: A minimum of 6 credits earned toward the certificate must be completed at NMSU or one of its community colleges. If the certificate requires fewer than 6 credits, all credits must be completed at NMSU or one of its community colleges. Individual academic programs may have additional requirements.

Associate's Degree

Associate's degrees are of two types. The academic associate's degree prepares students to transfer to a baccalaureate program and generally includes credits toward the first two years of a four-year degree. Academic associate's degrees include the Associate of Arts, the Associate of Science, and other named degrees that link to a specific major (the Associate of Education, for example). Other associate degrees, typically called Associate of Applied Science, prepare students for entry into the workforce. Credits for these programs may or may not apply toward a four-year degree. Associate degree seeking students who are interested in a dual degree should consult with their academic advisor. The Associate of Arts and the Associate of Science degrees cannot be earned together. The Associate degrees.

Students interested in transferring to NMSU or another four-year institution should check the appropriate sections of the university catalog for more information.

Requirements for the two-year associate degrees are found in the respective catalogs and sections concerning these degrees. The following requirements apply to all associates degrees:

- Minimum Credit Hours: a minimum of 60 credits (excluding "N" suffix courses). Some programs of study require coursework in excess of the 60 credit-hour minimum.
- 2. **New Mexico General Education-** state mandated general education courses (as specified in General Education section); such course are designed with a "G"

- a. For Associates Degrees: 32-35 credits
- b. For Applied Associates Degrees: 15-18 credits
- GPA requirement: Students must have a cumulative GPA of 2.0 or better in all courses taken at NMSU or one of its community colleges. In addition, students must earn a C- or better in classes they take to meet the Basic Skills requirement (ENGL 1110G and one of several math course options),
- Residency A minimum of 15 of the 60 credits for the associate's degree must be completed at NMSU or one of its community colleges. Individual academic programs may have additional requirements.
- Major: All requirements for at least one major field of study as specified in the college and departmental sections of the respective catalog.

Associate Major

An associate major, consisting of at least 18 credits, may include courses from more than one department. Requirements for the Associate Majors are specified in the respective Community College Catalogs.

Baccalaureate Degree (Bachelor's Degree)

A baccalaureate or bachelor's degree provides students with a broad educational base as well as knowledge in a specific major field. Each college has unique degree requirements that are listed in the college's designated section of this catalog. In addition to the College and Department requirements, students must complete each of the following degree requirements for every Bachelor's Degree awarded by NMSU:

- Minimum Credit Hours: a minimum of 120 credits (excluding "N" suffix courses)
- GPA requirement- a minimum cumulative GPA of 2.0 in all courses taken at NMSU
- New Mexico General Education 32-35 credits of state mandated general education courses (as specified in General Education section); such course are designed with a "G"
- New Mexico State University's Viewing a Wider World- 6 credits of Viewing a Wider World courses; such courses are designated with a "V", or alternatives as specified in the Viewing a Wider World section
- Upper Division Courses- a minimum of 48 credits in courses numbered 300 or above.
- 6. **Residency –** Of the last 36 credits earned toward award of the degree:
 - a. 30 credits must be completed at NMSU
 - b. 21 credits must be upper division (300 or above) and
 - c. 12 of the 21 upper division credits must be within the student's major.
 - NOTE: colleges or departments may require that more than 12 upper division credits be within the major and they may direct that a certain number of these credits be course specific.
- 7. Major all requirements for at least one undergraduate major field of study, other than a supplemental major, as specified in the college and departmental sections of the catalog. As an undergraduate student seeking a baccalaureate degree you are expected to declare a major prior to earning 45 credit hours toward your degree. You should complete your general education requirements within your first 90 credit hours earned.

Bachelor's Degree Designations

Undergraduate Major

An undergraduate major consists of 24 or more credits within the major field, of which 18 credits must be upper-division courses, and may include courses from more than one department. Additional requirements for majors are specified in the college and department's designated sections of this catalog.

Supplemental Major

A supplemental major consists of 24 or more credits of interdisciplinary coursework, of which at least 18 credits must be upper-division (300-499), and no more than 9 credits may be from the student's major course of study. Additional requirements for supplemental majors are specified in the catalog listing of the departmental/college sections.

Undergraduate Minor

An undergraduate minor consists of 18 credits of course work, of which 9 credits must be upper-division (300-499). A minor encompasses courses that may be in a single department or interdisciplinary and are in a recognized field of study outside the student's declared major. At least 9 upper-division credits of a minor must be completed at NMSU. Additional requirements for minors are specified in the college and department's designated sections of this catalog. Minors cannot be earned after the degree has been conferred.

Undergraduate Concentration

A concentration consists of 12 or more credits of coursework in a specialty area that is related to a specific major field of study. At least 9 of the 12 credits must be upper-division (300-499), and at least 9 credits must be completed at NMSU. Additional requirements for concentrations are specified in the college and department's designated sections of this catalog.

Distance Education Bachelor's Degree Completion Program

A Bachelor Degree Completion Program allows students who have met the lower division requirements (100 and 200 level) of an undergraduate degree program to complete the remaining upper-division credits (300 and 400 level) through distance delivery courses offered by NMSU Las Cruces. Only selected degrees are available as degree completion programs. Students must complete all required lower-division (100 and 200 level) credits before they can be admitted to the Bachelor's Degree Completion Programs. The program(s) normally require two years of upper division (300 and 400 level) coursework.

Graduating with Honors

For information about graduating with Honors, please refer to the Recognition of Academic Achievement section of this catalog.

Graduate Degrees

All graduate degrees are subject to rules and regulations of the Graduate School. Degrees will be certified by the Graduate School only upon the complete review and clearance of the candidate's program of study.

Graduate Degree Designations

Graduate Major

A graduate major may include courses from more than one department, but as a minimum it must consist of at least 30 graduate credits.

Additional requirements may be imposed by the State of New Mexico and New Mexico State University as specified in this Catalog.

Graduate Minor

A graduate minor is based on at least 9 graduate credits in courses that encompass a recognized field of study outside the student's major. Departments may require certain courses be a part of a minor and may exclude other courses.

Graduate Concentrations

A concentration is a collection of coursework in a specific area that is part of a degree program of study at NMSU. At the graduate level at least 9 of these 12 credits must be numbered 500 or above. Only approved concentrations within a students' department or program may be noted on a transcript.

Concentrations will not be added to a transcript after a degree is awarded. In order for the approved concentration to be noted on the student's transcript, the following conditions must be met:

- Request the concentration at the time they file their official program of study.
- 2. Identify the concentration on their official Application for Degree.

Graduate Certificates

A Graduate Certificate program requires 12-18 credits of course work that is interrelated and designed to develop a focused skill or area of expertise but does not culminate in the awarding of a degree. Courses that comprise a graduate certificate must be regular approved courses offered by the University and must be numbered 450 or above. A graduate certificate is indicated on the student's transcript.

Master's Degree

New Mexico State University offers both academic and professional master's degrees. A link to the list of all master's degrees is provided in the Graduate School section of this catalog.

Underprepared students may be required to take additional general or discipline-specific undergraduate or graduate courses to prepare them for the advanced academic work necessary for success in graduate level courses in their chosen field.. This may result in an extended graduation date.

Admissions to the Master's Degree

The admission of a student into the Graduate School does not imply admission to candidacy for an advanced degree. The major department in which the student intends to become a candidate for a master's degree must determine the student's ability to pursue studies at the graduate level. Please see the Department(s) for specific requirements.

Program of Study

After the completion of one year of enrollment each new graduate student should prepare a complete program of study in consultation with the student's advisor.

Application to Candidacy

The program of study will formally list the curriculum requirements for degree completion and is required for application to candidacy. The program of study must be approved by the advisor, department, and academic dean and submitted to the Graduate School. The Program of study may specify the Catalog at the time of graduation, as long as the catalog is considered active. Otherwise, the current Catalog will be listed.

An Application for Admission to Candidacy must be filed with the Graduate School. This must be done before the completion of 12 credits of graduate coursework. The student must have a minimum cumulative GPA of 3.0 at the time the application is submitted. The application may specify the Catalog at the time of graduation, as long as the catalog is considered active. Otherwise, the current Catalog will be listed.

The student's program of study must:

- Meet the requirements of the chosen catalog, including the regulations of the Graduate School and of the major department.
- 2. Be signed by the student, the student's advisor, department head, minor faculty if applicable, and academic dean.
- List each course prefix/number, short title, credit hours and grades if available.

If the program of study does not comply with the departmental requirements or the potential degree audit, the program of study must be approved by the Dean of the Graduate School. . The Program of Study is not required for master's programs if defined within the Star Degree Audit.

Credit Hour Requirement

A minimum of 30 credits is required for the master's degree. Most master's degrees require at least 15 credits in courses numbered 500 or above. This includes thesis credits for any master's programs that include a thesis option. Master's programs involving a thesis, must include, either a minimum of 4 credits or a maximum of 6 credits of thesis. Please see the "Thesis" section for more information.

At least 15 credits for the master's degree must be for work in courses within the student's department. Additional credits may be selected from other fields to fit into a logical and justifiable program. However, courses that are used to remove deficiencies or satisfy prerequisites cannot be counted as requirements for a master's degree.

Coursework Requirement

Students must take coursework from a variety of faculty. Students may not take more than half of the minimum credits required for a master's degree with the same professor, excluding thesis credits.

All graduate students are required to register for a minimum of 1 credit of graduate coursework in their final semester. Please see the Tuition, Fees and Other Expenses section for more information.

Thesis Option

A thesis in the major field is recommended and may be required at the discretion of the department. A minimum of 4 credits and a maximum of 6 credits may be counted toward the requirements for a master's degree. The final examination shall consist of an oral defense of the student's thesis as well as a general examination of the candidate's field of study.

 Continuous Enrollment- once registered, a student must continue to register for a minimum of 1 credit in thesis or graduate coursework each regular semester until the thesis is approved by the Graduate School and the copies have been accepted by the Branson Library binding section.

Graduate Committee for Thesis Option

The graduate committee for the master's degree consists of a minimum of three faculty members who hold, at least, a master's degree and meet the following criteria:

1. Committee chair.

- a. Must be from the student's home department
- b. Must be a graduate faculty member

2. Committee member(s):

- a. May be from outside the student's home department
- Student's with a declared minor- may have the representative from a related area or be appointed by the Dean of the Graduate School.
- c. Must be a graduate faculty member

3. Dean's Representative:

- a. Must be a representative from a related area or appointed by the Dean of the Graduate School
- b. Must be a graduate faculty member

Finalizing the Master's Thesis

After successful completion of the final examination, electronic submission of the approved thesis must be submitted to ProQuest ETD, no later than the deadline posted to the Graduate School website. The form and style of the thesis must comply with the guidelines provided in Preparing your manuscript for submission, located at https://gradschool.nmsu.edu/wp-content/uploads/sites/5/2019/02/2.-
Preparing-Your-Manuscript-for-Submission-Revised.pdf. The guidelines also contain detailed information on the thesis submission and approval process. The thesis is not complete until the Graduate School has accepted it electronically.

Professional Degree and Non-Thesis Final Examination

Each candidate will be given a final examination conducted by their graduate committee in accordance to the schedule provided by the Graduate School. It is the department's responsibility to ensure that the Report of Results for the Master's Professional or Non-Thesis Final Exam form is submitted to the Graduate School at least ten working days after the exam.

The final examination format for the professional degrees and nonthesis option will be determined by the department, with the approval of the Dean of the Graduate School. If a department does not specify an examination format, the final examination will consist of an oral defense of the candidate's field of study.

At the time of the final examination, a graduate student must have a cumulative GPA of at least a 3.0 and must be enrolled for a minimum of one credit hour in the final semester; or if the student is writing a thesis, he or she must have completed all course work for the master's degree.

NOTE: the cumulative GPA, will be calculated from NMSU graduate coursework only.

Any candidate who fails in the final examination may either.

- Be granted a second examination, written or oral, after a lapse of at least one semester, only with a recommendation from the student's advisor and approval from the Dean of the Graduate School.
- 2. Be excluded from further candidacy for the degree.
- 3. Failure in the second examination disqualifies a candidate from obtaining the degree.

Students in professional or non-thesis options may be required to pay a special exam fee in lieu of registering for 1 credit of graduate coursework. Please see the Tuition, Fees and Other Expenses section for more information.

Time Limit

Students must complete the master's degree program within seven years (or eight successive summers) of the start of the degree, including completion of the master's thesis or final project. Inclusion of any coursework more than seven years old at the time of the final examination will be at the discretion of the department.

Master's Accelerated Program (MAP)

The master's accelerated program provides an opportunity for academically qualified undergraduate students to begin working on a master's degree during their junior and senior years while completing a bachelor's degree. Typically, a bachelor's degree requires four years to complete and a master's degree requires an additional two years. The master's accelerated programs allow students the opportunity to complete a graduate program in an accelerated manner.

Undergraduate students may apply for acceptance to a Master's Accelerated Program available at New Mexico State University after completing 60 semester hours of undergraduate coursework of which a minimum of 25 semester credit hours must be completed at New Mexico State University and apply towards the undergraduate major. The grade point average must be a minimum of 3.0; departments participating in the master's accelerated program may have requirements that exceed these minimum requirements. It is the student's responsibility to meet with their financial aid advisor. Awards may be adjusted to reflect enrollment in an undergraduate/graduate program.

Graduate departments within the colleges may allow academically qualified undergraduate students to substitute a maximum of 12 graduate course credits for elective courses in an undergraduate degree program. Graduate programs have the discretion to use up to 12 credits of NMSU coursework (450 level or higher) that can logically be applied towards the completion of master's program of study. A grade of B or higher in this coursework will be required .

Program Participation Requirements:

- 1. Students must obtain prior approval by the graduate program
- Student's course work must be general or discipline electives in the student's undergraduate course of study. No required courses from the undergraduate program will be accepted towards the Master's Accelerated Program.
- Students will enroll in approved graduate level courses. If course(s)
 requires instructor approval, it is the students responsibility to obtain
 necessary approval
- Students participating in MAP are required to submit a completed Master's Accelerated Program Referral Form to the Graduate School by the first Friday of classes, with all required signatures.
- 5. Students participate in the Developing New Scholars Program (DNSP) through the Graduate School. The DNSP program provides formal mentoring supporting application process to Graduate School. Upon awarding of the Bachelor's degree and formal admissions into a master's/graduate program at NMSU, the approved credits (up to 12) will be recorded on both the undergraduate and the graduate transcript.

Interdisciplinary Master's Degree

Interdisciplinary studies, at New Mexico State University, are intended for individuals specializing in programs that require the integration of more than one discipline to fully engage in the field of study. The programs provide a mechanism to address emerging scholarship, innovation and research, as well as, allow graduate students to engage in emerging technologies that optimize their education outside the traditional

disciplinary boundaries. An Interdisciplinary study takes advantage of traditional academic training within specific departments and also allows students to customize their own career preparation. In these programs, a coherent common core is expected and is intended to combine existing courses across disciplines to meet unique objectives.

The interdisciplinary studies option should not be used in cases where the applicants' objectives can be realized by admission to a specific department with a degree program, and inclusion of up to two minor areas in the program of study.

Admission

Students interested in pursuing an Interdisciplinary Master's Degree (IMAS) degree must meet with the Graduate School for advisement. The advisement session will include information on completing the IMAS admission application:

- 1. Develop a proposal for interdisciplinary studies
- 2. Create the IMAS graduate committee
- Once the student's graduate committee is designated, the committee can require additional materials such as a statement of interest, letters of recommendation, GRE or GMAT scores and a personal interview.
- Complete the IMAS referral form and procure committee members IMAS program approval.
- 5. Procure academic department head IMAS referral form approval.
- 6. Submit IMAS referral form and proposal for interdisciplinary studies to Graduate School for admissions.

Degree(s) Awarded

Students receive a Master of Arts (MA) or a Master of Science (MS) and a concentration in the designated interdisciplinary study area.

Other conditions for being awarded a degree within the interdisciplinary studies program are:

- 1. The student must present a written description of the program concept consisting of the following, as well as, the designated degree being sought and a name of the interdisciplinary area:
 - a. The objective of the program of study which should include, proposed areas of skill development and proposed courses in more than one graduate degree granting department at NMSU.
 - b. A justification for not using an existing degree program.
- The student's program of study must include a minimum of 30 graduate level credits and a maximum of 36 graduate level credits.
 Students may take six credits in departments that do not grant a graduate degree, but the courses must be numbered 450 or above and be pertinent to the program of study.
- 3. The majority of the departments involved in the student's program will be master's degree granting departments. The student is expected to take at least 15 credits in the primary area of study within one department. The department selected by the student will receive a copy of the student's application for admissions to the Graduate School. In addition, the student is required to select a minor area of study in another department that consists of at least 9 graduate credit hours.
- 4. The student will form a committee composed of members of the graduate faculty and select an advisor who will chair the committee. The chair must be from the primary department where the student has taken at least 15 credit hours listed in the proposal submitted. The other committee member must be from the department in which the student has selected a minor area of study from the approved list.

- The student will be required to submit the Candidacy Form after they have satisfactorily completed 12 credits.
- The program will meet all requirements of a master's degree, with the interpretation, that "major field" includes courses from two or more departments and in the designated interdisciplinary study area.
- 7. The program of study will include the completion of a research thesis or project. The work may be submitted in the form of a publishable manuscript, technical report, thesis or creative option.
- The student may enroll on a part-time basis keeping in mind that coursework cannot be more than seven years old at the time of the final examination.
- The student will be administered a final comprehensive exam that is consistent with the department selected for the primary area of study.
 For example, if a department requires a written exam, the student in the interdisciplinary masters will also be required to take a written exam.
- 10. The final oral comprehensive exam will consist of questions pertinent to the area of study and the defense of the research thesis or project. In both cases, an integrated approach to the areas of study chosen should be followed.
- 11. All other rules for graduate study at NMSU must be followed.

Thesis/Non-thesis Option

As with any graduate student, the student in interdisciplinary studies can select to follow a thesis or non-thesis option. Students enrolled in the thesis option register for six thesis credits. Students not wishing to follow the thesis option will be required to complete a project report. The project must reflect the interdisciplinary nature of the program which the student is pursuing.

Comprehensive Exam

Students in interdisciplinary studies take a comprehensive exam composed of questions designed by the student's committee. The committee consists of two individuals in the area of study, the dean's representative who must be outside of the department/program/interdisciplinary study option, and a committee chair.

Second Master's Degree

A student who has earned one master's degree at NMSU may be allowed to count a maximum of six semester credits earned on the first degree toward a second master's degree, if those credits fit into a logical graduate program. The number of shared credits may be increased for joint degree programs.

Teacher Licensure

Students wishing to take graduate courses for licensure, renewal of licensure or for personal enrichment must be fully admitted to a department in order to do so. Undeclared students may not register for teacher licensure classes.

Endorsement is available at both the elementary and secondary levels in bilingual education, TESOL (Teaching of English as a Second Language), reading and special education. Endorsement is also available in early childhood education at the elementary level. Contact <u>curricinstr@nmsu.edu</u> for more information.

Specialist in Education

The specialist in education degree is available for experienced members of the education profession who have maintained a 3.3 grade-point average while pursuing this degree or its equivalent. Programs are available in curriculum and instruction, as well as, school psychology.

Emphasis is placed on the development of the competencies needed for a professional specialization in a given field. Students must complete the general application for the Graduate School and they should also check with the admitting department for specific departmental requirements.

Residency and Credit Requirements

The specialist in education degree requires a minimum of 30 credits including research, intern experiences and graduate courses. Twenty-four of these credits must be completed at NMSU to meet the campus residency requirements.

Students must maintain a 3.0 GPA, no more than 6 credits of C level work are allowed for this program.

Program of Study

After the completion of one year of enrollment each beginning graduate student should prepare a complete program of study with the student's advisor. The program of study can be tentative, should be kept in the student's file within the department, and is not considered an "Application for Admission to Candidacy."

Major Field

All course work taken for the degree should apply directly, through a logical program of study, to the specialty which candidate has selected. Each department is responsible for defining the required sequence of courses.

Candidacy

Following the successful completion of 12 credits the student is eligible for admission to candidacy. With the achievement of candidacy, a committee is appointed to work with the candidate on the remainder of the program. The committee consists of three members of the graduate faculty in the College of Education.

Internship

Each candidate will earn from three to six semester credits in an internship. This experience will consist of supervised performance of duties related to the candidate's specialty. The student's department will determine the structure of the internship and a research project will be conducted in conjunction with the internship.

Oral Examination

The oral examination committee will consist of the student's committee and a dean's representative appointed from the graduate faculty by the dean of the Graduate School. This committee will conduct an oral examination at the conclusion of the research project and no earlier than the candidate's last semester of enrollment.

The examination will consist of a defense of the project along with general questions on subject matter related to the candidate's field of study. Any candidate who fails the oral examination may upon recommendation of the advisor and with the approval of the graduate dean, be granted a second examination after a lapse of at least one semester. Failure in the second examination disqualifies the candidate from obtaining the degree.

Time Limit

The specialist in education degree must be completed within seven years following admission to the program. Inclusion of any coursework more than seven years old at the time of the final examination will be at the discretion of the department.

Doctoral Degrees

The doctoral degree requires significant scholarly study beyond the master's program.

Prospective candidates are expected to hold bachelors or master's degrees from accredited institutions, based on curricula that include the prerequisites for graduate study in the department of their subject. To be considered for admission to a doctoral program, the applicant must have a grade-point average of at least 3.0. Prospective candidates are urged to consult the department in which they wish to study for information concerning specific requirements.

Professional Doctoral Degrees Doctor of Economic Development (DED)

Students enrolled in the Doctor of Economic Development are required to complete and pass a comprehensive examination. Since a dissertation is not required, students are expected to complete an internship experience and a project paper as defined by their program. They can embark on the project paper once they have completed and passed their comprehensive examination. Students are not required to take 700 level dissertation hours. However, they are expected to complete at least 12 credits at the 600 level including ECDV 694 Internship and ECDV 699 Doctoral Project.

Doctor of Education (Ed.D)

The degree of Doctor of Education demonstrates proficiency in a program of graduate study in which the emphasis is in preparation for performance in professional education. This program is intended primarily for students pursuing careers in which teaching, administration or school services are predominate rather than those in research. The Ed.D. Degree in curriculum and instruction is offered in the Department of Curriculum and Instruction; the degree in educational administration is offered in the Department of Educational Leadership and Administration.

The requirements for doctoral degrees in the two departments of the College of Education have the following distinguishing elements:

- The qualifying examination consists of a written and an oral section, both of which are administered prior to admission to the program.
 Acceptance for doctoral admission is equivalent to the successful completion of the qualifying examination. Residency of at least two consecutive semesters cannot commence until the semester after the qualifying examination is successfully completed.
- 2. Comprehensive examinations usually are administered three times annually. The written examination tests the major and related areas of concentration and is administered after successful completion of the orals within two weeks' time. A student who fails any part of the comprehensive examination may present him or herself for reexamination of the failed part of the exam before moving on to the next part.
- 3. The major area of study must be within the College of Education

A minimum of nine credits constitutes the related area. The courses can be taken in any department of the university with the approval of the student's committee. The related area must be specifically planned with the major and minor departments in order for the doctoral fields to be mutually supportive. Any transfer credit or predoctoral course work to be included in the related field must have the approval of both the major and minor department at the outset. Specified course work in both research and statistics is required for this degree. Other requirements are described in the departmental sections of this catalog.

Doctor of Nursing Practice (DNP)

Students holding a Bachelor's degree in Nursing are required to complete and pass all required course work for the DNP program, as well as, complete and pass their comprehensive examination. Since a dissertation is not required, they are expected to complete an internship experience and a project paper as defined by their program. They can embark on the project paper once they have completed and passed their comprehensive examination. They are not required to take 700 level dissertation hours. However, they are expected to complete at least 12 credits at the 600 level including NURS 698 (Advanced Clinical immersion) credits sufficient to complete the DNP Final Project.

Students who hold a Master's of Science in Nursing are required to complete the following:

- 1. All course work requirements
- 2. Their comprehensive exam (with passing marks)
- 3. The DNP Project.

Post- MSN DNP students must complete at least 6 credits at the 600 level, including NURS 698 credits sufficient to finish the DNP Project. Finalized projects must be uploaded to a national DNP Project repository approved by the Graduate Faculty of the School of Nursing in order to achieve the DNP degree.

Doctor of Philosophy (Ph.D.)

The Doctor of Philosophy degree requires distinguished attainment in both scholarship and original research. The doctoral degree requires significant scholarly study beyond the master's that is tailored to the needs and interests of the student. The degree is granted in recognition of the candidate's high attainments and ability in the special field, shown by work on the required examinations covering both the general and the special fields. The individualized program of study is designed to meet the campus residency requirement, includes a minimum of 30 graduate credits, and includes the preparation of a dissertation. A candidate for the Ph.D. degree is expected to maintain a higher level of work than the grade-point average of 3.0, plus at least 18 credits of dissertation work (700-level courses).

Interdisciplinary Doctorate

Students interested in pursuing an Interdisciplinary Doctorate (IDOC) degree program must meet with the Graduate School for advisement. The advisement session will include information on completing the IDOC admission application.

The following requirements for admission to the interdisciplinary doctorate degree program are:

- Students wishing to study in the interdisciplinary doctoral degree program must apply and be accepted into a doctorate-granting department.
- A master's degree or equivalent program of study that includes at least 30 credits of graduate course work with a minimum cumulative GPA of 3.0.
- Twelve credits of graduate course work must be completed at NMSU in order to apply for admission into the interdisciplinary doctorate degree program. Additional course work is required for degree completion.
- 4. Evidence of outstanding academic achievement in graduate school.
- 5. A written description of the program concept prepared by the student consisting of:

- a. Areas in which competency is required
- Purposed readings and course work and how these relate to required competencies
- c. Objectives and an outline for thesis research
- d. Justification for not using an existing departmental degree program
- 6. Student must select an advisor from his/her department to help structure and chair a committee consisting of at least five faculty members from the graduate faculty list who are willing to work on the interdisciplinary degree program. The committee must include at least two members from each of the two doctorate-granting departments. The committee chair will convene a meeting to review and approve the proposed program.
- 7. The Graduate School will send an Admission Referral document, signed by all the committee members, to the heads of all the departments from which the student proposes to use more than 8 credits of course work, or from the department which the faculty are requested to serve on the proposed committee.
- 8. Once the Admission Referral document has been approved by all departments, the committee chair will convene a meeting of the committee to review the student's program and make changes as necessary. In addition, the committee will set the format and date for the qualifying exam. An effort should be made to incorporate the interdisciplinary nature of the program into the qualifying exam.
- 9. Students have satisfied the requirements for admission to the program once the qualifying exam has been passed and the respective department heads approve the Admission Referral memorandum. Formal acceptance into a doctoral program may be required in order to receive financial assistance.
- 10. The number of courses required for degree completion will vary depending on the student's program of study, please see the department for more specific requirements. However, Interdisciplinary doctorate degree students must meet the requirements for residency, registration, the comprehensive examination, the Final Examination, the dissertation and the declaration of approved minor.
- The dissertation work shall include at least 18 credits of a 700-level course.

Completing your Doctoral Degree Program

Any student who fails to abide by the regulations in this section will be considered withdrawn from the university. In order to resume their studies, the student must formally apply for readmission to the Graduate School and satisfy any requirements that are in effect at the time of reapplication.

Declaration of Approved Minor

Any doctoral applicant for candidacy may declare up to two approved minors in addition to the major area of study. Demonstration of competency in the minor area will be required at both comprehensive and final examinations.

Qualifying Examination

Doctoral students must pass a qualifying examination that is scheduled by the student's advisor and is administered by the major department. Its purpose is to determine the areas in which the student shows strength or weakness, as well as the ability to assimilate subject matter presented at the graduate level. A student may not register for dissertation credits prior to the successful completion of the qualifying examination.

The following conditions apply to students who wish to take the qualifying examination:

- For students who enter the Graduate School with little or no previous graduate experience but wish to proceed directly to the doctorate, the qualifying examination should be taken after 12 credits of graduate work
- For students who enter with a master's degree or equivalent from another university, or another department, the qualifying examination should be taken before the completion of one semester of graduate work.
- For students who earn their master's degree at New Mexico State
 University and will continue in the same department, the department
 may allow the master's final examination to serve as the doctoral
 qualifying examination or may require a separate examination.

Based on the result of the qualifying examination, the department will take one or more of the following actions:

- 1. Admit the student to further work toward the doctorate
- 2. Recommend that the program be limited to the master's degree
- Recommend a re-evaluation of the student's progress after the lapse of one semester
- 4. Recommend a discontinuation of graduate work

In all cases, the Graduate School shall be notified by the department of the results of the qualifying examination.

Students will be admitted to the doctoral program once the qualifying examination is passed. The student's advisor and department head will then appoint the doctoral committee to prepare the student's preliminary doctorate program of study. The student must submit the program of study to the Graduate School immediately following admission into the doctoral program and before registering for additional coursework.

Doctoral Graduate Committee

The doctoral committee will be composed of at least four members of the graduate faculty who hold doctoral degrees. The following rules apply to the composition of the committee:

- The committee chair must be from a discipline within the student's major area.
- At least one additional member of the committee must also be from a discipline within the student's major area.
- If an approved minor is declared, at least one (but no more than two) members of the committee must be from the minor area.
- At least three committee members must be members of the graduate faculty and be from a doctorate-granting department
- Only one member may be outside of the student's department.
- One member of the committee must serve as the dean's representative. In programs where more than one department participates, the dean's representative may not be from any of those departments. The dean's representative may be one of the following
 - the member from the related area
 - · a member from the minor area
 - An independent member, not from the student's department, that is appointed by the Dean of the Graduate School.

Departments may structure committees that include more than the minimum number of members, as long as the following conditions are satisfied. No changes can be made to the doctoral committee membership without prior approval from the Dean of the Graduate School.

Additional voting and nonvoting members may be any person approved or appointed by the Dean of the Graduate School

All members of the committee will attend the comprehensive oral and final defense for the student's dissertation.

Program of Study

Students should file the Program of Study Form once they have:

- Completed 1 year of enrollment while at NMSU that are beyond the master's degree
- · Successfully completed the qualifying examination

The Program of Study Form should be completed and submitted to the Graduate School before registering for any additional courses. The individualized program of study is designed to meet the campus residency requirement and includes a minimum of 30 graduate credits beyond the master's.

If the Doctoral degree requires a dissertation, at least 18 credits of dissertation work must be included. The professional doctoral degree includes a practicum or special project that culminates in a written report which demonstrates a command of the relevant scholarly literature and links it to the specific clinical or practical experience.

Comprehensive Examination

The Graduate School should receive the Program of Study and the Committee for Doctoral Students Form and the Doctoral Qualifying Examination Form.

Students will be admitted to the comprehensive examination only after the following conditions are met

- 1. Completion of adequate course work, to the satisfaction of the major department and the Graduate School
- 2. The graduate committee determines the student is adequately prepared for the examination
- Successful completion of all language requirements (where applicable)

Students must be registered for 3 credits of graduate course work during the semester in which they take the comprehensive examination. A student taking an oral examination during the summer must enroll for at least one credit for that term.

The Doctorate of Philosophy Examination or Professional Doctorate Examination Form must be on file at the Graduate School at least ten working days prior to the proposed date for the examination. The examination must be part written and part oral. The results of the oral examination will be reported to the Graduate School by the Dean's Representative of the committee.

Any student who fails the comprehensive examination may either be terminated from the doctoral program or upon recommendation of the committee and approval of the Dean of the Graduate School, be granted a second examination after a lapse of at least one semester.

NOTE: In general, there should be a time lapse of at least one year between the comprehensive and final oral examination. However, due to the type of research required and the method of administering the written comprehensive in some departments, such a time lapse is not

always practical. In all cases there must be one semester between the comprehensive and the final oral examinations.

Time Limit for the Comprehensive Examination

If more than five years have passed since the date of the comprehensive examination, the candidate will be required to take another comprehensive examination before admission to the final examination.

Advancement to Candidacy

Advancement to Candidacy recognizes that the student has demonstrated the ability to sustain a level of scholarly competency commensurate with successful completion of degree requirements. Upon advancement to candidacy, the student is cleared for the final stages of the graduate program which may include a dissertation, project or written examination.

For advancement to candidacy the following criteria must be met

- 1. Successful completion of the comprehensive examination
- 2. Recommendation of the graduate committee
- 3. Approval of the Dean of the Graduate School

Upon receiving advancement to candidacy, students must establish residency and follow the Dissertation Registration Requirements (see Residency Requirements below).

Residency Requirements

The minimum campus residency requirements for the doctoral degree include enrollment in a minimum of 9 credit hours of program course work, including a minimum of 3 credit hours of dissertation, in at least two semesters of classes taught at NMSU. In some cases the minimum credit hour enrollment for the two semesters required to establish residency may vary based on the instructional delivery of the program, and must have prior approval from the Dean of the Graduate School.

Dissertation Registration during Fall/Spring Sessions

After becoming a candidate, students must continue to register for at least 3 credits of dissertation or graduate course work, each spring/ fall semester until the dissertation is approved by the Graduate School and the dissertation format review has been completed. The total number of dissertation hours must be 18 credits. The doctoral committee can impose additional requirements for courses numbered 700.

A student who fails to abide by these regulations will be considered withdrawn from the university and in order to resume studies, must formally apply for readmission and satisfy the requirements in effect at the time of reapplication.

Dissertation Registration during Summer Sessions

If the final examination is to be held during the summer or the dissertation is to be completed during the summer, students must register for one credit during the summer session in which the final examination will be held or the dissertation will be completed.

Dissertation Leave of Absence

Students may seek a leave of absence from their dissertation. A leave of absence requires that a student must get prior approval from the Dean of the Graduate School, which means the student must receive permission for the leave of absence before discontinuing their formal studies.

Final Examination

NOTE: If more than five years have elapsed since the date of the student's passed comprehensive examination, the candidate will be required to

take another comprehensive examination before admission to the final examination.

Every student working toward the doctoral degree will submit a dissertation embodying the results of original research. The dissertation is expected to demonstrate the student's ability in independent investigation and to be a contribution to human knowledge. The dissertation shall display a mastery of the literature of the subject field, present an organized and coherent development of ideas with a clear exposition of results, and provide a critique of the limits and validity of the student's conclusions.

When a complete draft of the dissertation has been prepared, the student's doctoral committee (appointed after the qualifying examination) will conduct the final examination. The final examination is concerned primarily with the research work of the student as embodied in the dissertation, but it may be much broader and extend over the candidate's entire field of study. The intention of the final examination is to verify that the candidate has a satisfactory grasp of the major subject as a whole and has a general acquaintance with the fields of knowledge represented by the course of study. The final examination is oral and is open to the public.

Every student meeting the final examination qualifications must be enrolled in a minimum of 1 credit hour in order to defend. The final examination must be completed in accordance with the schedule provided in the academic calendar. Ten working days before the examination is taken the department must submit the form requesting this examination to the Graduate School. This form may be found on the Web at http://gradschool.nmsu.edu/graduate-forms/ and is also available from the Graduate School and departmental offices.

Students must ensure that each member of the examining committee receives a copy of the dissertation, no later than seven working days before the date of the final examination.

Any candidate who fails the final oral examination may either be terminated from the doctoral program or upon recommendation of the committee and approval of the Dean of the Graduate School, be granted a second examination after a lapse of at least one semester. Failure in the second examination disqualifies the candidate from obtaining the degree.

Finalizing the Doctoral Dissertation

After successful completion of the final examination, electronic submission of the approved dissertation must be submitted to ProQuest ETD, no later than the deadline posted to the Graduate School website. The format review of dissertation will be performed electronically by the Graduate School. The form and style of the dissertation must comply with the regulations given in Preparing your manuscript for submission located at https://gradschool.nmsu.edu/doctoral-dissertation-students/. The dissertation is not complete until the required forms are received at the Graduate School. Required forms may be found at https://gradschool.nmsu.edu/doctoral-dissertation-students/.

Registration at NMSU is a process that includes: (1) academic advising with a faculty or staff member, (2) registering for classes, online or with your academic advisor, and (3) paying the tuition and fee bill. For first time freshman and transfer undergraduate students (at the Las Cruces campus), the registration process is through the Aggie Welcome/Transfer Student Orientations. For currently enrolled Undergraduate students and all Graduate students registration is through your advisor or online through the myNMSU portal. For detailed instructions and questions

about registration which are not addressed on the website, please contact the University Student Records Office (USRO).

Admission Requirement

No person will be will be allowed to register for courses until formally admitted to NMSU through the Community College, International Programs, Undergraduate or Graduate Admissions processes.

Course Schedule

Each semester and summer session, the University Student Records Office provides an online course schedule which can be accessed through myNMSU or the NMSU website. Note that not all courses listed in this catalog are offered every semester.

Registration Schedule by Classification

Several groups of students (e.g. Crimson Scholars, Students with Disabilities, Veterans) receive priority dates for course registration. For other students, registration dates are determined by the student's current classification at the time of registration. A student's classification is determined by the number of credits completed, and does not include courses in progress. A student's classification depends upon the number of credits completed toward graduation. Sophomore classification is achieved with successful completion of 28 credits; Junior classification, 60 credits; Senior classification, 90 credits.

University Credits

The unit of university credit is the semester hour, which is based upon one hour of lecture class or a minimum of two hours of practice/lab per week during one semester, and assumes a minimum of two hours additional, by the student, outside of class. The number of credits associated with each course is indicated in the course schedule.

Course Load for Undergraduate Students

The full-time course load in a regular semester (fall or spring) for a main campus undergraduate students is 12-18 credits. A full-time course load for a summer term is 9 credits with a maximum of 6 credits per session, totaling no more than 12 credit hours. Some scholarships have a 15 credit course load eligibility requirement. Each student is responsible for meeting their own scholarship eligibility requirements.

An overload is classified as more than 18 credits for a regular semester and more than 12 credits for the summer term. A one-credit course in physical education or supplemental instruction will not create an overload. Registration for a course overload requires written permission from the Director of the Center for Academic Advising and Student Support or the Associate Dean for Academics in the student's college. A "Undergraduate Change of Schedule" form is required and available from the University Student Records Office or on their website. Freshmen and students with a grade of D or F, or a cumulative grade-point average of less than 2.5, in either of the last two semesters, are not eligible for overloads. Concurrent enrollment in non-NMSU courses at other post-secondary institutions requires prior approval from the Associate Dean for Academics in the student's college, and these courses are counted as part of a student's class load.

Course Load for Graduate Students

A full-time course load in a regular semester (fall or spring) is 9 credits, with a maximum of 15 graded credits. A full-time course load for a summer term is 6 credits with a maximum of 9 credits.

Course Numbering

The course numbering system at NMSU indicates the level of the course as follows:

Undergraduate courses are assigned numbers 100-499. Courses numbered 100-299 are referred to as "lower-division courses" and are primarily for Freshman and Sophomore level students. Courses numbered 300-499 are referred to as "upper-division courses" and are primarily for Junior and Senior level students.

Graduate courses are assigned numbers 500 or greater. Courses numbered 500-599 are primarily for graduate students working on a master's degree. Courses numbered 600-700 are primarily for students working on a doctoral degree.

Some graduate programs may accept courses numbered 450-499 for graduate credit. Graduate students should confirm eligibility with their program department head.

Prerequisites and Corequisites

Some courses require advance or concurrently acquired specific knowledge and skills. Prerequisite(s) and corequisite(s) for each courses are indicated in the course description section of this catalog. Students must have completed (or be presently enrolled in the prerequisite(s)) courses in order to register for a course with prerequisites. Where a student was allowed to register for a course while completing the prerequisite(s), and then subsequently fails to successfully complete a prerequisite course, the student shall be dis-enrolled from the course requiring the prerequisite. In the case of a corequisite, a student must enroll in the courses during the same semester. In some instances, where a course has an enforced "pre/corequisite" the student can elect to either take the requirement before registering for the course, or take the courses at the same time.

Registration Changes

Subject to any registration "holds" and any applicable deadlines, students may change their course registration online. Caution should be exercised as registration changes may negatively impact eligibility for scholarships, financial aid or athletic participation, the student's ability to progress through their degree program in a timely manner, and the student's obligations with respect to tuition and fees.

The University Student Records Office publishes an online schedule of "Important Dates for Students" for each semester. The student is responsible for reviewing and adhering to the Important Dates, including the deadlines to add, drop or withdraw from course(s) for the relevant semester.

Adding Courses: There are two different types of deadlines for adding courses:

- Last day to add a class without instructor's signature during this
 period courses may be added online through myNMSU, or through
 your academic advisor (if necessary).
- 2. Last day to add a class with instructor's signature during this period courses may only be added with either the "Undergraduate Change of

<u>Schedule</u>" or the '<u>Graduate Change of Schedule</u>' form signed by the instructor (available online on the <u>University Student Records Office</u> website).

* Students taking classes online and who do not live in the Las Cruces Area must email the instructor, using the NMSU email, in order to get permission to be added to the course. If the instructor approves the addition, the approved response must be sent to either the student's academic advisor or to registrar@nmsu.edu with the student's name, ID number and course CRN number they are wanting to add

Withdrawing from Courses: There are two different types of deadlines for withdrawing from courses:

- Last day to drop without a "W" grade during this period, the student
 can drop the course and not have it appear on their official transcript
 in any form, and the student will have no financial obligation related
 to the course (students will receive a 100% refund if tuition has been
 paid for the course).
- Last day to drop with a "W" grade during this period, the student
 can withdraw from the course, but the course will appear on their
 official transcript with the withdrawal (W) designation as the grade,
 and the student will be responsible for the full tuition and fees related
 to that course.

Students are responsible for initiating official withdrawal from any course(s) they do not intend to complete. Students who experience extraordinary circumstances that prevent timely registration changes should consult with their Academic Associate Dean or the Registrar. For more information about the process for adding or withdrawing from a course(s), please speak with your academic advisor or contact the University Student Records Office.

Any student attending under Veteran Educational Assistance must notify the Military and Veteran's Programs office before processing registration changes to determine if changes will affect their enrollment status or benefits.

A student found insufficiently prepared for a course they are enrolled in may be transferred to a more elementary course in the same subject any day before the last day to withdraw from an individual course.

Waitlisting

Waitlisting is available for all courses across the NMSU system, except for labs that are linked to a specific lecture class. Waitlisting is an electronic list of students who are waiting to register for a filled course. Once students are put onto the waitlist, the process to get into that course is as follows:

- A currently enrolled student must drop the course for a seat to become available.
- 2. The first student on the waitlist is notified through their NMSU email.
- 3. The notified student has 24 hours to login to their myNMSU and register themselves for the class.
- 4. If the first student fails to register within their allotted 24 hours, then the first student is dropped from the waitlist and the next student on the waitlist is notified. This continues until the empty seat is filled.

A student who fails to register for the class during their allotted 24 hours is automatically dropped from the waitlist and can add themselves back onto the bottom of the waitlist for that course.

Students cannot be added to the waitlist after the first day of classes. Instructor overrides can only be made after the second day of class, at which point the instructor's signature is required on either the "Undergraduate Change of Schedule" or the 'Graduate Change of Schedule' to add a course.

Graduate Registration Requirements for Summer

Students who have scheduled their final examination, or who are completing their thesis during a summer session, must be registered for one credit hour during the same summer session. In order to graduate during a summer session, the student must have filed the Application for Degree by the deadline posted on the Academic Calendar.

Repeating Courses for A Change in Grade

See the Grading portion of the Academic Regulations section of this catalog.

Substitutions and Waivers

Students registering for their final semester must have all course substitutions and waivers of required, for their degrees, courses approved before two weeks after the last date of registration for full or summer terms.

Auditing a Course (No Credit)

An audited course is one in which the student registers for the learning experience but does not seek to earn academic credit for the course. A student seeking to audit a course must register and pay tuition and fees for the course and have the consent of the instructor to take the class in audit form. A student who has registered to audit a course may be dis-enrolled from the course at any time before the registration deadline expires if necessary to accommodate a student taking the course for credit. After the last day to register, the student cannot change the course option from audit course to a for credit bearing course.

Audited courses are not used in determining a maximum class load (overload) for undergraduate students in good academic standing, however, the audited course will be counted as part of the maximum allowable course load for graduate students and undergraduate students who are on academic probation.

Attendance and Student Performance

Academic success is closely correlated to student participation and attendance. Accordingly, students are expected to regularly attend all their classes. Each course instructor will establish the specific attendance and course requirements. Only students who are currently enrolled in a course for either credit or audit are permitted to officially attend the classes. However, individual instructors may allow an occasional visitor and may allow a student who officially withdrew from the course to continue to attend for the remainder of the semester.

Absences from Class and Failure to Complete Assignments

Students who must miss class due to accident or illness, or due to other circumstances beyond their control should consult the course syllabus and the instructor for guidance. Students may be administratively withdrawn from a course due to excessive absences (consecutive absences in excess of the number of class meetings held within a week

or any number of absences, including failing to use the online Learning Management System, which are impairing the student's performance), or for persistent failure to complete assignments. In such cases, the Instructor may recommend administrative withdrawal by providing a completed "Student Absence/Lack of Progress Report" form to the Academic Associate Dean. If the Academic Associate Dean agrees with the recommendation of the course instructor, the student will withdrawn from the course. Any student who has been administratively withdrawn from a class may appeal that decision to the Dean of the College where the course was offered within 10 days after notification of the withdrawal.

Any absences due to the student's participation in a university sponsored event (e.g. ASNMSU president representing NMSU at legislative session, student athletes competing in NMSU scheduled athletic events, or students attending educational field trips and conferences) will be excused and deemed an "Authorized Absence". Authorized absences do not relieve the student of the course assignments or responsibilities and instructors may require students to complete course work before the absence. Prior to the student's absence, the sponsoring department will provide the instructor with written notice of the dates of expected absence.

Classroom Conduct

Each instructor has the authority to establish and enforce reasonable rules of conduct in their courses. A student who engages in behavior that interferes with the educational environment of the class may be administratively dis-enrolled with the approval of the academic department head and academic associate dean for the course, and with notification to the Provost. Any student who has been administratively dis-enrolled from a class may appeal that decision to the Dean of the College where the course was offered within 10 days after notification of the dis-enrollment.

Student Performance Assessment

Individual student performance and learning outcomes in a course are measured and evaluated by the course instructor and reported to the student in the form of grades. Each instructor has the authority to establish assignments and other assessments (such as exams and quizzes) and to assign grades based on the student's performance on those assessments. Final grades for the course are determined by the instructor and reported to the University Registrar as described in grading section of this catalog. Any student who believes that their academic performance has been evaluated unfairly may appeal the grade through the University's Academic Appeals process as provided in this Catalog.

Academic Program Assessment

New Mexico State University is committed to providing its students with a quality education and a supportive learning environment. Academic Program Assessment is a continuous improvement process achieved by identifying a program's desired learning outcomes, evaluating the extent to which those outcomes are collectively achieved by students in the program, and then implementing changes to enhance and improve the collective program outcomes. For assessment to be effective, students must be actively aware of and engaged in assessment activities.

Academic Program Assessment requires participation of students who are expected to provide feedback on personal, professional and academic development and to participate in a variety of assessment exercises. Assessment activities may be a part of regular graded course assignments, or may require students to engage in other activities. Assessments may include course projects, exams, exit

interviews, standardized tests, surveys, focus groups, etc. Data gathered through these assessments is published only in aggregate form.

Learn more about NMSU's Academic Program Assessment at https://assessment.nmsu.edu/

Exam Week and Final Examinations

NMSU designates the last week of each semester as "Exam Week" during which each course has only a single 2 hour meeting time for a mandatory culminating activity which may be a final examination or some other course related activity. The University Student Records Office (USRO) establishes the Final Examination Schedule for each semester (http://registrar.nmsu.edu/final-examination-schedule/). Examinations are typically held in the course's usual lecture/lab room. Some departments hold Departmental Exams where all students for all sections of a particular course are required to take the final examination simultaneously. The date, time and location of the Departmental Exams are indicated on the Final Examination Schedule. For courses that were not scheduled to meet at the specific times listed under "Regular Class Time" on the USRO's Final Examination Schedule, the instructor and course department coordinate examination dates, times and locations with NMSU's Academic Scheduling office (575) 646-4790. Final exams for weekend courses are held at the regular class period on the last day of class.

The final exam or culminating activity must not be rescheduled for a different date, time or location, except with permission of the department head and the unanimous consent of the enrolled students. During the week before Exam Week, instructors are not allowed to hold examinations lasting more than one class period.

Any student having more than three examinations scheduled in any one day may, no later than the week prior to exam week, notify the instructor of the examination scheduled latest in the day to obtain an alternative date for that examination. (If the fourth exam is a departmental exam, the instructor of the third exam will make alternate arrangements for that exam upon request.)

Students who believe that their instructor(s) have not honored Exam Week requirements may appeal to the instructor's department head.

Developmental Evaluation

The academic skill level of all entering first-time students at the time of registration is evaluated based upon ACT scores, SAT test scores, and/or alternative placement assessments. The student's eligibility to enroll in university level English and Mathematics courses is dependent upon this evaluation. Students who have not demonstrated adequate preparation for university level courses are required to take developmental courses. Developmental courses are included on the transcript and will be included in the calculation of the GPA, but the developmental course credits do not count towards a degree.

Basic Academic Skills

All undergraduate students must demonstrate Basic Academic Skills in both English and mathematics before enrolling in any upper-division course (numbered 300 or higher). These requirements ensure that each student in the upper-division courses has the ability to succeed without compromising the learning experience of other students. The completion of the Basic Academic Skills requirements does not necessarily result in the award of academic credit nor satisfaction of university general education requirements in English and mathematics. (Students should

consult the General Education Courses and Requirements section in this chapter for these requirements.)

Transfer students with 45 or more credits are allowed to enroll in upperdivision courses for only one semester before satisfying the Basic Academic Skills requirements. The Basic Academic Skills requirements may be satisfied in a variety of different ways as listed below:

English Basic Skill Demonstration Options (achieve one of the following):

- · ACT English Score of 30
- Coursework ENGL 1110G, or equivalent, completed with a grade of C- or higher.

Equivalents: the following are deemed equivalents to ENGL 111G for the purpose of satisfying Basic Academic Skills in English:

- ENGL 1110H completed with a grade of C- or higher
- ENGL 1110M required for International students who took the TOEFL examination
- CLEP Exam score of 57 or higher in freshman college composition
- · English Advanced Placement (AP) Exam score of 3, 4, or 5
- English Composition Transfer Credits 3 or more credits with a grade of C- or above, transferred from accredited postsecondary institutions (International students may be required to take ENGL 1110M Composition I Multilingual as noted above.)

Credits from Non-accredited Institutions - As a general rule, NMSU does not accept credits from non-accredited institutions. Students with 3 or more credits of college-level English composition with a grade of C- or higher from a non-accredited institution may, however, challenge the Basic Academic Skills requirement in English and ENGL 1110G Composition I course requirement by submitting a theme paper written under the supervision of, and demonstrating achievement of ENGL 1110G Composition I learning outcomes as determined by, the Department of English.

Mathematics Basic Skill Demonstration Options (achieve one of the following):

- · ACT Mathematics Score of 23
- Coursework any one of the following courses or course combinations completed with a grade of C- or higher in each course:
 - · MATH 1130G Survey of Mathematics
 - · MATH 1215 Intermediate Algebra
 - MATH 1220G College Algebra
 - Any mathematics course numbered 1250G or above (prefix MATH) excluding MATH 1996 Topics in Mathematics and MATH 2992 Directed Study
- Basic Skills Exam Passing Score offered twice a semester by the Department of Mathematical Sciences
- Calculus AB, Calculus BC or Statistics Advanced Placement (AP)
 Exam score of 3, 4, or 5

IMPORTANT NOTE: Basic Academic Skills Demonstration fulfillment options may not appear on the transcript, result in the award of academic credit, or satisfy general education requirements. The Basic Academic Skills requirements are used solely for the purpose of determining eligibility for enrollment in upper-division courses. All students should seek to complete the Basic Academic Skills requirements as early in their

academic program as possible. Students who postpone completion of Basic Academic Skills may be unable to progress toward degree completion in a timely manner.

Independent Study and Directed Reading Courses

Independent study courses and directed reading (other than those designated in the catalog with a subtitle), are for students capable of and sufficiently motivated to undertake self-directed study with limited oversight of a faculty member. Only students who have completed at least 28 credits at NMSU under traditional grading, with a cumulative GPA of 2.5 or better, are eligible to enroll independent study courses. No student is entitled to enroll in independent study and enrollment requires the consent of an instructor who agrees to supervise and evaluate the student's learning activities in the course. Students seeking enrollment in an independent study course should prepare an independent study proposal to present to individual faculty member(s) in the relevant discipline for consideration. At a minimum, the proposal should include the topic of study, a brief survey of the literature or other resources on the topic, and a description of the proposed written product or other tangible outcome of the independent study. The relevant academic department for the discipline may have additional requirements. Each college determines the maximum number of credits that may be earned in independent study courses.

Adjusted Credit Option

The adjusted credit option provides eligible undergraduate students who earned a low grade-point average (less than 2.0 cumulative) during their first few semesters to reset their GPA calculation. This option may be used only once and is not reversible. These are the consequences of exercising the Adjusted Credit Option:

- All of the student's academic history pre-dating the request, including all NMSU course credits previously attempted or completed, transfer coursework, CLEP, ACT, advanced placement, special examination, and/or military service are included in the adjustment and designated as "ADJUSTED CREDITS" on the transcript. These credits are no longer be included in the calculation of the cumulative grade point average.
- Courses carrying an academic grade of S, CR, C- or better, earned
 prior to the grading period in which the student requested this option,
 are treated as earned academic credit and need not be repeated,
 except where a higher grade is required in the student's academic
 program.
- Courses carrying an academic grade of U, CD, D or F, earned prior to the grading period in which the student requested this option, remain on the student's transcript, but no academic credit is provided for these courses. The student must repeat these courses to obtain academic credit.
- 4. The student's academic transcripts will continue to reflect all coursework, including courses falling under the adjusted credit option. In no circumstances will a transcript be issued that does not include all courses attempted at this university.
- The student's current academic status, eligibility for employment, and financial aid may be impacted. Probationary status and eligibility for on-campus employment are not affected by the exercise of the adjusted credit option.
- 6. The repeat rule for courses starts anew.

- The student will not be eligible for award of an associate degree until earning thirty (30) or more additional credits after exercise of the Option.
- 8. The student is eligible for University honors at graduation upon completing a minimum of 60 academic credits at NMSU, after the adjusted credit option is exercised, with a resulting grade point average which satisfies University regulations for honors.

After carefully considering the consequences indicated above, eligible students may exercise the Adjusted Credit Option by paying a fee of \$10 and submitting an adjusted credit option application to the University Student Records Office. Application forms are available on the University Student Records Office website and can be approved by the Director of the Center for Academic Advising and Student Support or the Associate Dean for Academics in the student's college or the Academic Vice President at the Community Colleges. Only students meeting the following criteria are eligible to exercise the Option:

- 1. No awarded baccalaureate degree
- 2. Enrolled as a degree-seeking or non-degree undergraduate student
- 3. Cumulative grade-point average of less than 2.0 at NMSU
- Fewer than 60 credits accumulated (including both transfer and NMSU credits)

Credit by College Level Examination Program (CLEP)

Prior to or during a student's enrollment at NMSU, credits may be earned through the College Level Examination Program (CLEP) of the College Entrance Examination Board. CLEP is a national program of credit by examination that offers the opportunity to earn credits for college level achievement wherever or however the student learned. Earned CLEP credit will be treated as transfer credit without a grade, will count toward graduation, and may be used in fulfilling specific curriculum requirements. A current NMSU CLEP policy as well as test schedule information is available through Testing Services DACC East Mesa, RM 210. Testing Services may be reached at: (575) 528-7294.

Credit by Examination

Any enrolled student with a cumulative GPA of at least 2.0 currently attending classes may, with permission of the appropriate department, challenge by examination any undergraduate course in which credit has not been previously earned except an independent study, research or reading course, or any foreign language course that precedes the final course in the lower-division sequence. The manner of administering the examination and granting permission shall be determined by the department in which the course is being challenged. Students may not enroll in a single course, challenge it by examination, and drop it during the drop/add period, unless they enroll in an additional course. In exceptional cases in which a student demonstrates outstanding ability in a course in which he is already registered, he may be permitted to challenge the course. A student desiring to apply for special examination may obtain the necessary forms from the University Student Records Office. The fee for challenging a course is the same as the approved tuition rate. Courses may not be challenged under the S/U option. The special examination privilege is based on the principle that the student, exclusively, has the responsibility for preparing for a special examination.

Credit for Military Service

New Mexico State University will award academic credit to United States military personnel for courses and Military Occupational Specialties

(MOS), based on the American Council of Education Guide (ACE) as well as through national standardized tests, such as CLEP, AP, PEP and DANTES. Credit for military-training is in accordance with NMSU Faculty Senate Legislation Proposition 24-07/08, which was passed in May 2008. Military Training and Military Occupational Specialties (MOS) must have a recommendation evaluation by ACE (in the ACE Guide) for credit to be awarded. Courses accepted for transfer credit become part of the student's official NMSU transcript and academic record. If a student wishes to appeal a decision regarding the acceptance of military training/education and/or MOS for academic credit, the student must submit a written statement of appeal to the Dean of the College to which the student has applied. The Dean will review the merits of the appeal and render a decision. The decision of the Dean is final.

Only Primary MOS (s) are eligible for academic credit in the initial review and evaluation. Credit for Duty and/or Secondary MOS may be eligible for academic credit if the student petitions the college's Associate Dean. Primary MOS is the primary specialty of a soldier and reflects the broadest and most in-depth scope of military experience. Veterans, active-duty personnel, National Guard and Reservists who are current students or students applying for admission to New Mexico State University may be granted academic credit on a case-by-case basis upon evaluation of military transcripts - the Joint Service Transcript (jst.doded.mil) and the Community College of the Air Force transcripts. Course equivalencies and credit hours awarded for a particular NMSU degree are determined by colleges and/or academic departments. Credit hours may be awarded for specific courses toward degree requirement, or as elective credit. The number of credit hours awarded will be determined by the college and/or academic department.

NOTE: Students submitting military transcripts for credit evaluation must keep in mind the Maximum Time Frame policy. See Financial Aid Section.

Graduate Course Deficiencies

Students who have been admitted with departmental deficiencies may be required to take diagnostics tests and additional qualifying examinations. They must complete satisfactorily, in a manner specified by the major department, all undergraduate course deficiencies as prescribed by the department responsible for the graduate program. Courses taken to satisfy deficiencies will be listed on the undergraduate transcript; however, these course grades will not be calculated in the student's graduate GPA or graduate hours. With the permission of the student's advisor and the head of department, courses to meet undergraduate deficiencies may be taken under an S/U option (with S being a grade satisfactory to the professor), and such courses will not affect the maximum number of S/U graduate credits permitted.

Short Courses for Graduate Students

Short course(s) that are numbered 450 and above have been approved to carry graduate credit. Graduate students must be registered for the short course(s) to receive graduate credit. Concurrent enrollment of graduate students in regular and short courses for the fall/spring semesters is allowed, provided the combined total credits does not exceed 15. All short courses carrying one semester credit will be graded on an S/U basis and these credits will be counted toward the student's limit of S/U credits.

Challenging Graduate Courses

A graduate student may challenge a graduate course by examination, please see the Graduate School for more information.

University Grading System

Each course department or instructor establishes the system for assessing student performance in achieving course learning objectives. Students should consult the course syllabus for a description of the grading system used in each course. At the conclusion of each course, instructors are required to report a final grade reflecting the instructor's assessment of each student's performance. Shortly after the end of the term, students can access their grades through the MyNMSU portal. No other grade notification will be issued. The final grade is reported on the student transcript. Instructors may elect whether to use fractional grading (the use of the plus and minus) in assigning final letter grades.

The NMSU system for final grades is expressed in letters, which carry grade points that are used in calculating the cumulative grade-point average, as shown in this table:

Letter Grade	Grade Points per Unit of Credit
A+	4.0
A	4.0
A-	3.7
B+	3.3
В	3.0
B-	2.7
C+	2.3
C	2.0
C-	2.0
D+, D, D-	1.0
F	0
W- Withdrawal	0
N- Grade not submitted	0
CR- Credit authorized, but not letter grade	0
IP- In progress	0
RR- Progress in undergraduate course	0
PR- Progress in graduate thesis	0
S- Satisfactory work ¹	0
U- Unsatisfactory work	0
I- Incomplete work	0
AU- Audit	0

S grades are grades that are satisfactory to the professor and are normally equivalent to the letter grade of C- or higher.

Any courses for which only CR, S or PR is awarded, but no traditional letter grade is given, will be included in the total number of earned hours but is not computed in the grade-point average. Traditional letter grades are those which are used in the grade point average determination: A+, A, A-, B+, B, B-, C+, C, C-, D+, D, D- and F. In computing the overall grade-point-average, the total credits in which grades of A+ through F have been assigned is divided into the total number of grade points earned.

Midterm and Six-Week Early Performance Grades

A Six-Week Early Performance Grade (sometimes referred to as Midterm Grade) for courses numbered 100-299 will be posted and available to students through the MyNMSU portal. The purpose of the early grade

posting is to ensure that students have an opportunity to address any performance issues. Students should be mindful that the Six-Week Early Performance Grade reflects a students' performance on only that portion of the total coursework that has been graded at that time. Any student who is doing poorly, or not as well as they would like, should meet with the instructor to discuss how they can improve. Students who have concerns about their progress in multiple courses or who are considering withdrawal from course(s) must meet with their academic advisor.

In courses numbered 300 or higher, the posting of Early Performance Grades is optional and may occur through the online course management system rather than the MyNMSU portal. However, prior to the last day to withdraw from a course, upon request, instructors will provide information to students about their progress in the course.

Retention of Grading Records

Individual assignments and exams that are not returned to students should be retained by the instructor or department through the end of the subsequent regular semester. The records used to compute individual final grades should be retained for two years after the completion of a course. If a final grade is appealed, these records are kept for at least two years after the completion of the appeal. Departments, colleges or the library may require that records be kept for longer periods.

Minimum Grade Requirement for Undergraduate Students

Undergraduate degrees require a cumulative GPA of 2.0 or higher for degree completion. Although D+, D, or D- can be considered passing, some departments have higher grade requirements for the courses within their program and/or their program as a whole. Students should check with their departments regarding specific course grading requirements for their particular degree program.

Minimum Grade Requirement for Graduate Students

Graduate degrees require a cumulative graduate G.P.A. of 3.0 or higher. Although B- and C grades (including C+ and C-) earned at NMSU may be counted toward the requirements for a graduate degree in some programs, this grade does not reflect acceptable graduate-level performance and may cause the cumulative G.P.A. to fall below the 3.0 required for graduate students. Some departments have higher grading requirements for courses in their programs. Students should check with their departments regarding specific course grading requirements for their particular degree program.

Courses in which a student earns a D or F grade do not ever satisfy graduate degree requirements; however these grades will be calculated in determining the students' cumulative grade-point average. To obtain academic credit, students must retake courses in which a grade of D or F was earned.

S/U Grading

S/U grading allows the student to attempt to earn course credit without having a course grade included in their grade point average calculations. Under S/U grading, the instructor assigns an S grade for satisfactory achievement of the course learning objectives (normally equivalent to the letter grade of C- or higher) and a U grade for unsatisfactory performance in the class.

Designated S/U Courses

Each academic college may designate courses in which the grading will be on a basis of S or U for all students enrolled in the courses. Credits in designated S/U courses are not included in the limitations on the number of S/U credits a student may take, and are not subject to the student eligibility requirements described below.

Election of the S/U Grading Option - Undergraduate Students

In courses other than those designated as S/U for all students, eligible individual students may elect the S/U Grading Option, subject to the regulations stated below. To be eligible for the S/U (satisfactory/ unsatisfactory) Grading Option, undergraduate students must meet the eligibility requirements and obtain approval of an academic advisor. Eligibility requires completion of 28 credits at NMSU under traditional grading, with an overall average of 2.5 or better. (Upon approval of the adjusted credit option, students must re-establish eligibility.) Nondegree seeking students may take courses under the S/U option without regard to eligibility requirements. However, these courses may not be subsequently applied toward an undergraduate degree at NMSU.

The S/U option must be elected as part of the course registration and may not be added once the course registration period closes. Other than honors courses and courses officially designed as S/U, the following limitations apply to courses in which the S/U option is elected:

- 1. No more than 7 credits per semester or 4 credits per summer session.
- 2. Not to exceed a total of 21 credits towards a degree.
- 3. Not a required course for the student's major.

Students electing the S/U option should be mindful that upon a change of majors, the new major department may require a traditional grade for a course within that major that was previously completed with an S grade. In such cases, the student may request that the original instructor process a change of grade form to apply a traditional grade, however, if more than 2 years have elapsed or if the instructor is no longer at NMSU, such a change will not be possible and the student may be required to retake the course or obtain a traditional grade through a course challenge.

Election of the S/U Grading Option Election - Graduate Students With an approval from their advisor and department head, graduate students in good academic standing may elect the S/U option, at the time of registration, for courses taken outside the major department, subject to the regulations stated below:

- 1. No more than a total of 6 credits of elected S/U courses are permitted in the master's degree.
- Doctoral candidates may take an additional 6 credits under the S/U option after application to candidacy.

I Grade Designation

The letter grade of I (incomplete) is given for passable work that could not be completed due to circumstances beyond the student's control that develop after the last day to withdraw from the course. In no case is an I grade to be used to avoid the assigning of D, F, U or RR grades for marginal or failing work. Examples of appropriate circumstances include documented illness, documented death or crisis in the student's immediate family, unexpected military deployment and similar circumstances. Other job related circumstances are generally not appropriate grounds for assigning an I grade. Students requesting an I grade are responsible for providing satisfactory evidence of such circumstances. (In the case of medical records, instructors should review

the information provided, note that adequate medical documentation was provided for review, and return the documentation to the student. Under no circumstances should the instructor retain any medical records or indicate the specifics of any medical condition in the academic records.) The refusal to grant an I grade may be appealed in the same manner as any other final grade.

To assign an I grade, the instructor must complete the "I grade Information Form" and have the form delivered to the associate dean of the course college. The instructor must indicate on the form whether the student will be given the option to complete the remaining coursework and have the I grade changed to the earned letter grade. If so, the instructor should indicate the steps necessary to complete the remaining coursework. The I grade form should either be signed by the student in person, or the associate dean must send a copy of the document to the student's official permanent address, as recorded in the University Student Records Office, with a notation on the form that the student was not available for signature.

The I grade will be permanent in instances where (1) the instructor did not provide an option to complete the coursework, (2) the instructor left NMSU prior to completion of the coursework and grade change, or (3) the student failed to complete the coursework by the relevant deadline, and the instructor did not indicate that the I grade would be changed to the earned grade upon failure to complete. In such instances, the student will be required to re-enroll in the course to receive credit (in which case the permanent I grade and the subsequent earned letter grade will both appear on the transcript).

The student is entitled to have the I grade removed from the transcript only if, within 12 months or any earlier deadline established by the instructor on the "I Grade Information Form" and prior to graduation, the student completes the remaining coursework, as specified on the Form, in a manner satisfactory to the instructor. If the student fails to complete the coursework, the instructor may change the I grade to any appropriate grade (including D, F or U) only if the instructor stated that this would occur on the "I Grade Information Form." The instructor should assign whatever grade was earned for the entire course.

To change the I grade, the instructor must complete a "Change of Grade Form," obtain the signature of the associate dean for the course, and submit the form to the University Student Records Office.

RR Grade

The RR grade may be assigned only in undergraduate developmental courses (CCDE, CCDL, CCDM & CCDR) and indicates that the student has made substantial progress toward completing the requirements of the course. It carries neither penalty nor credit, so a student must re-enroll and successfully complete the course in order to earn credit. The grade of RR may be received only once in any given course, and is a permanent notation on the student's transcript.

W Grade Designation

The W grade is assigned only in courses when the student withdraws or is administratively dis-enrolled from the course after the last day to drop the course. The W grade is permanent.

Effect of Change of Grade

The effect of a change of grade on a student's academic standing (academic warning, probation or suspension) depends on the date the transaction is officially recorded on the student's academic record. If

the transaction is recorded before the student begins another semester, the grade change (such as replacing the I grade with an earned grade) is included in the grade-point average calculation in order to establish the student's academic standing. If the transaction is recorded after the student begins another semester, for the purpose of calculating academic standing, the new grade is included with any other grades earned for the semester in which the grade change is processed.

Repeating Courses for a Change in Grade

Undergraduate students: may repeat courses, for a change in grade, when the original grade earned was a D or F. Once a grade of C- or better is earned, the course will then be substituted in the calculation of the grade-point-average and students will no longer be able to repeat that course for change of grade purposes. Student transcripts will continue to show the grade awarded for each course attempt. If the student's original grade was a D and he/she repeats the course, but receives a F, the second grade will not be substituted for the original.

Graduate students: may repeat courses to achieve a higher grade, but the grade assigned for each attempt will remain on the transcript and will be counted in the grade point average calculation.

Grade Point Average

Grade point average (GPA) calculations are based solely on courses taken at NMSU or under an approved National Student Exchange.

Grading in Graduate Research

In grading both master's and doctoral research, thesis and dissertation work in progress, the instructor reports for each enrollment period the grade PR (progress) or U (unsatisfactory) rather than a traditional letter grade. These assigned grades are permanent notations on the student's transcript. Only those credits graded PR (Progress) accumulate toward the minimum number of research credits required.

PR indicates that the student has devoted an adequate amount of time to the work scheduled but does not indicate the quality. U indicates that the student has stopped work or is doing work of unacceptable quality.

At the conclusion of the final oral examination, or when the thesis/ dissertation is submitted for the final signature of the graduate dean, the instructor will report the final S or U grade for that semester. If the thesis/ dissertation and the performance in the final oral examination are found to be acceptable, the instructor will report an S (satisfactory) grade. If the thesis/dissertation or the performance in the final oral examination is found to be unacceptable, the instructor will report an U (unsatisfactory) grade.

If a student accumulates a total of two U (unsatisfactory) grades in courses numbered either 598, 599, 600, 699 or 700, the student will be placed on provisional status. If three U (unsatisfactory) grades are reported for these courses, the student will be dismissed from the Graduate School.

Withdrawal from a Single Course

Any student wishing to formally withdraw from a single course, after the last day to drop has passed, can do so through their Academic Advisor or the University Student Records Office. All such withdrawals will be registered on the student's transcript with the "W" grade indication.

For students wishing to withdrawal from all courses, please see the section on Withdrawal from NMSU.

Leave of Absence from the Graduate School

Students who are working on advanced degrees and plan to have an interruption in studies, for a calendar year, should request for a leave of absence through their department head. The student must submit a formal letter through their department head to the Dean of the Graduate School, an email will not be accepted. The request should include the beginning date and the anticipated ending date for the period of absence.

A graduate student on leave of absence will be expected not to use university facilities and place no demands upon the university faculty and staff, and, therefore will pay no fees. Time spent in the "leave-of-absences" status will not be counted toward the advanced degree time limits.

A graduate student who fails to register for one calendar year without obtaining a leave of absence from the Graduate School will be considered withdrawn from the university, by the Graduate School. In order to resume their studies after such absences, the student must go through the formal readmission process.

Administrative Withdrawals

In the event that a student has stopped either attending class without formally withdrawing or stopped using the online Learning Management System, the University reserves the right to remove the student from the class by means of an administrative withdrawal

An administrative withdrawal is initiated for a student who is representing the university at an official out-of-town event and becomes effective when the student returns from the event or five class days after the signed drop slip gets to the dean's office.

Military Withdrawal

New Mexico State University understands that our military and Veteran students may be called to active duty, specialized training, or disaster relief efforts with little notice. U.S. active duty military students wishing to withdraw from all their classes must present their orders and their request for full withdrawal, as indicated below. However, the below policy does not pertain to a student's basic and/or annual training. A student who has an order for training is encouraged to formally request, through the proper military chain of command, a postponement of their orders until the summer or the end of the semester they are currently enrolled in. If a student's request for postponement is denied, the student may then follow the below steps but must provide documentation that their postponement request was formally denied.

All NMSU students that have been called up for active duty must take the following steps in order to withdraw from all their classes:

- Military and Veterans Programs (MVP): VA students ordered to Active Duty must provide a copy of orders to the MVP office, in Corbett Center Student Union, Room 244. To assist in reporting accurate information to the VA Regional Office, student should also provide, in writing, last day of class attendance.
- NMSU University Student Records: All students presenting their
 orders to the University Student Records Office, (575) 646-3411, will
 receive a military withdrawal from classes and a full tuition and fees
 refund for that semester.

 Bookstore: Students who still have their receipts for textbooks purchased the semester in which they are called to active duty will be given a full refund for these textbook purchases when they present their orders. (575) 646-4431.

Student Medical Withdrawal

A student medical withdrawal applies to a student who becomes seriously ill, injured or hospitalized and is therefore unable to complete an academic term for which they are enrolled. This action applies to all courses a student is registered for in the affected semester(s). The student cannot select which courses they want to withdraw from and which they want to remain registered for when exercising this option. The students' attending physician must provide a letter, on official letterhead with an original signature, stating the date(s) within the semester that the student was under medical care and must withdraw because of that medical condition. This letter must be submitted within the semester or no later than one academic year after the end of the term for which the withdrawal is being requested.

Once the information is reviewed a final determination will be made if the student is eligible for the consideration of tuition or other refunds (students receiving funds awarded by the University Financial Aid and Scholarship Services should be aware of policies regarding withdrawal from the University). At the Las Cruces campus, medical withdrawal begins and ends at the University Student Records Office. At all other campuses, medical withdrawal begins at the Student Services Office but is ultimately finalized with the University Student Records Office on the Las Cruces campus.

Medical Conditions of a Family Member Withdrawal

A student who is withdrawing because of a medical condition of an immediate family member must submit a letter from the family member's attending physician. This action applies to all courses a student is registered for in the affected semester(s). The student cannot select which courses they want to withdraw from and which they want to remain registered for when exercising this option. It must be on official letterhead with an original signature, stating the date(s) within the semester that the student's immediate family member was under medical care and that the student must withdraw to attend to the immediate family member's medical condition. This letter must be submitted within the semester or no later than one academic year at the end of the term for which the withdrawal is being requested.

Immediate family member, in this instance, includes a spouse; a domestic partner, as defined in the NMSU Policy Manual 7.04; a child, parent or legal guardian; a sister or brother and a grandparents or a grandchild. Familial relationships that are created by law are also included (i.e. mother/father in law; half or step siblings); any other relationships can be considered on a case-by-case basis.

Once the information is reviewed a final determination will be made if the student is eligible for consideration of tuition or other refunds (Students receiving funds awarded by the University Financial Aid and Scholarship Services should be aware of policies regarding withdrawal from the University.) At the Las Cruces campus, medical withdrawal begins at the University Student Records Office. At all other campuses, medical withdrawal begins at the Student Services Office.

Withdrawal from NMSU

Withdrawal from any NMSU campus is an official procedure that must be:

- 1. Initiated by the student (using the Withdrawal form)
- 2. Have all necessary signatures (as indicated on the form)
- 3. Be approved and processed through the University Student Records Office, located on the Las Cruces Campus

Students who withdraw from all courses for the semester should do so in person through the University Student Records Office. However, students who are unable to come in person may submit an e-mail using their NMSU e-mail account to records@nmsu.edu (). Students who leave without following the official procedure are graded appropriately by the instructor.

Applicable dates for the last day to withdrawal are published on the approved university academic calendar or under important dates at: http://registration.nmsu.edu.

A student who withdraws from all classes for the semester will retain access to their NMSU account per current policy but will lose access to other services and privileges available to enrolled students.

Financial information concerning drops and withdrawals can be found at http://uar.nmsu.edu/withdrawals/. Financial Aid Recipients should contact University Financial Aid and Scholarship Services before withdrawing. Students receiving funds awarded by the University Financial Aid and Scholarship Services should be aware of policies regarding withdrawal from the University.

The Federal Higher Education Act requires the University to calculate a Return of Federal Student Aid Funds for students who withdraw (officially or unofficially) from all classes on or before the 60 percent attendance point in the semester. Using a pro-rata schedule, the percentage of the semester attended is used to calculate the amount of the student's earned versus unearned Federal student aid funds. The unearned portion of Federal student aid funds will be returned to the appropriate aid program(s). Students withdrawing from classes are responsible for payment of any balance due after the required return of Federal student aid funds.

Graduation Requirements

For specific graduation requirements for any degree offered at NMSU please see the <u>Degrees, Majors, Minors and Other Academic Programs of Study</u> section, as well as the departmental sections for those requirements. These requirements will include the minimum GPA, total credits and specific course requirements for graduation.

Applying for a Degree

Any students that are in their final semester of classes are considered degree candidates and are required to submit an "Application for Degree" as well as pay graduation fees for each degree being sought. The application for Degree form is available online through the MyNMSU website. It must be completed and submitted by the designated deadline for that semester. The fees for the Las Cruces campus are all listed in the Tuition, Fees and other Expenses section of the catalog, once a student submits the application the fee will be included in the total cost for the semester or session in which the candidate anticipates completing their degree requirements.

If degree requirements are not completed during the semester/ session the student originally applied for, the student must then reapply and pay the appropriate fees. A \$50 late fee applies to applications received after the application deadline, and no applications will be accepted after the posted deadline date.

A student must specify which catalog they are using for their degree requirements in order for the university to determine if the requirements are met and if a degree can be certified. The latest date for substitution or waiver of required courses for degree candidates is two weeks after the last date of registration for full or summer terms.

Attendance at the Commencement Ceremony

Commencement is a symbolic ceremony. Participation in commencement does not, in itself, mean that a student is considered an NMSU graduate. In order to be awarded a degree, a student must fulfill university requirements as determined by academic colleges. The degree will reflect the graduation date from the application for degree in which all degree requirements were determined by the academic colleges.

The academic colleges will confirm the students eligibility to participate in the commencement ceremony that is held at the close of the fall and spring semesters. Eligible candidates who are in the process of completing their final degree requirements and degree recipients from the previous summer session will participate in the fall ceremony. Students who are in the process of completing their final degree requirements in the spring must attend the spring ceremony. However, Bachelor degree candidates that wish to participate in a spring commencement, prior to completing degree requirements in summer school may do so if they meet the following conditions:

- 1. Receive permission from the Dean of their college
- 2. Show a minimum cumulative grade-point average of 2.0
- 3. Only need 12 or fewer credit hours to complete their degree requirements
- 4. These remaining credit hours must be offered in the upcoming summer schedule of classes
- Submit a degree application and approved petition form (available in the Dean's office) by the last day to apply for a degree in the spring semester.

Academic Regalia

Each college may approve distinctive symbols to be worn by the top 10 percent of its graduates at commencement. Only one symbol may be worn by each graduate. In addition, the student with the highest honors in each college may wear a crimson-colored gown. No other symbolic additions to academic regalia are allowed without the approval of the Academic Deans Council.

Diploma

All fees and bills owed the university must be paid in full before a student may receive a diploma or official transcripts. The degree title and major(s) will be printed on the diplomas, in accordance to the degree application award, determined by the academic colleges. Academic honors will also be printed on the diplomas below the degree and major(s). The name on the diploma will reflect the student's current official NMSU records. Name changes are only processed for currently admitted students.

Diplomas will be mailed to graduates approximately eight weeks after the individual colleges certify the degree requirements and the final grades have been processed by the University Student Records Office. The

diploma will be mailed to the address specified on the degree application, unless an address change was requested before the last day of the semester

Undergraduate Academic Standing

When a student does not maintain adequate academic standing, he/ she is placed in Academic Warning. If the student's academic standing does not improve, the placement progresses to Academic Probation I. Continued unimproved academic standing moves a student into Academic Probation II, then finally, Academic Suspension. Each stage imposes more structure and limitations on the student in order to help them return to normal academic standing. The intent is not to punish, but to help the student return to normal academic standing and success. Since some of these limitations involve limitations on the number of credit hours, students on Probation or Suspension may be subject to loss of financial aid. It is the responsibility of the student to determine the impact of their changed academic standing on their financial aid. Notification to students of academic warning, probation, or suspension appears on the student's grade report at the end of each grading period.

Undergraduate Academic Warning

Issued only once, the first time a student's cumulative GPA falls below a 2.0 while in good academic standing. The University Student Records Office will send the student a notification detailing the consequences should the cumulative grade point remain below a 2.0 at the conclusion of the semester. A student on Academic Warning remains eligible for all extracurricular activities as governed by the rules of the specific activity.

While under Academic Warning the following restrictions apply:

- The student cannot enroll in more than 15 hours of coursework during the semester.
- The student may be required to enroll in a 3-credit hour special study skills/time management course specifically designed for students on Academic Warning, or an equivalent course approved by the appropriate associate dean or CAO of their campus.
- 3. Students may be required to enter into a contract with their advisor, approved by their department head that places further stipulations on Academic Warning. The contract may include, but is not limited to the following:
- 4. The student may be required to take at least one repeat course to try to improve their GPA.
- Except for the special study skills/time management course, the student's coursework may be restricted to their major.
- 6. The student may be required to get tutoring help.
- 7. The student may be required to see an academic counselor on a specified time schedule.
- The number of credit hours a student may register for may be restricted (due to extenuating circumstances such as the student's workload commitments).

The associate dean or CAO may place the student on Academic Probation I should the student not adhere to the stipulations of the contract.

If the student's semester GPA is less than a 2.0, and the cumulative GPA remains below a 2.0 at the end of the semester on Academic Warning, the student is placed on Academic Probation I. If the semester GPA is greater than 2.0 but the cumulative GPA is still less than 2.0, the student will remain on Academic Warning. If the cumulative GPA is greater than a 2.0

at the end of the semester then the student is returned to good academic standing.

Undergraduate Academic Probation I

This occurs when a student under Academic Warning has a semester GPA less than 2.0, and the cumulative GPA remains below 2.0 at the conclusion of the semester or if the student maintains a semester GPA greater than 2.0 while on Academic Probation I but the cumulative GPA is still less than 2.0. Academic Probation I will also occur if a student falls below a 2.0 cumulative GPA from Good Academic Standing if Academic Warning already occurred in a previous term.

Under Academic Probation I the following conditions apply:

- The student cannot enroll in more than 13 hours of coursework during the semester. Note: Students falling below 12 credits in any one semester will jeopardize their financial aid. Should this occur, students should see the associate dean in their college as soon as possible to try to implement corrective measures.
- 2. The student may enter into a contract or individualized education plan with their advisor and approved by the associate dean or CAO that place further stipulations on Academic Probation I. The associate dean or CAO may place the student on Academic Probation II or Academic Suspension should the student not adhere to the stipulations of the contract.
- Students on Academic Probation receiving educational benefits from the Veterans' Administration must obtain counseling from the Military & Veterans Programs Office.
- Students admitted under special provisions whose transcripts indicate less than a 2.0 GPA are admitted on Academic Probation I.

The student must maintain a semester GPA equal to or greater than 2.0 until such time that the cumulative GPA is greater than 2.0 at which time the student goes back to good academic standing. Until the transition happens the student remains on Academic Probation I. The student will be placed on Academic Probation II if he/she is unable to maintain a 2.0 semester GPA, and the cumulative remains below a 2.0 GPA, while under Academic Probation I. A student on Academic Probation I remains eligible for all extracurricular activities as governed by the rules of the specific activity.

Undergraduate Academic Probation II

Academic Probation II is issued in two ways.

- The first is when a student falls below a semester 2.0 GPA and the cumulative GPA remains below a 2.0 while on Academic Probation I.
- The second is when a student maintains a semester GPA greater than 2.0 while on Academic Probation II but the cumulative GPA is still less than 2.0.

The following restrictions are in place for student's in Academic Probation II:

- The student cannot enroll in more than 7 credit hours of coursework during the semester.
- As with rule 2 under Academic Warning and Academic Probation I and at the discretion of the associate dean or CAO, the student will be required to enter into a contract with their advisor, approved by the associate dean or CAO, to place further stipulations on Academic Probation II.

The associate dean or CAO may place the student on Academic Suspension should the student not adhere to the stipulations of the contract.

The student must maintain a semester 2.0 GPA or higher until the cumulative GPA reaches a 2.0 or higher at which time they are placed on good academic standing. A student unable to maintain a semester GPA of 2.0 or higher, and the cumulative remains below 2.0 GPA, while under Probation II will be placed on Academic Suspension. A student on Academic Probation II remains eligible for all extracurricular activities as governed by the rules of the specific activity.

Continuing in Probationary Status

Students may continue to enroll while on Academic Probation I or II provided they maintain a semester GPA of 2.0 or higher. If they withdraw from the university while on Academic Probation, they continue on that same level of Academic Probation.

Removal of Academic Probation

Such academic standing is removed when the cumulative GPA is raised to 2.0 or higher, with the following exceptions:

- 1. a transfer student may not remove probation by summer work alone;
- if an I grade is removed after the student has enrolled, the new grade's effect on academic standing is based on its inclusion with grades for the term for which the student is enrolled;
- 3. exercise of the Adjusted Credit Option does not change academic status until subsequent grades are earned.

Academic Suspension

When a student does not achieve a semester 2.0 GPA or higher, and the cumulative remains below a 2.0 while under Academic Probation II, they are placed on Academic Suspension. Students under Academic Suspension are not allowed to take NMSU courses while under suspension. Students on Academic Suspension must sit out a minimum of 1 semester and apply for re-admission.

Under certain conditions, a student may be re-admitted at NMSU under regular status while under Academic Suspension when satisfactory progress has been demonstrated at another college or university (see Readmission- Degree Seeking). Credits earned at another university or college while under Academic Suspension from NMSU or another university or college will be accepted at NMSU only after the student demonstrates satisfactory progress over a period of two semesters after being re-admitted or admitted to NMSU. Acceptance of transfer credits that count toward degree requirements is still governed by the rules established by the student's respective college or campus.

Summer Attendance Impact on Academic Standing

A student may use summer classes to try to get warning or probationary status removed. Students suspended at the close of the spring semester may have their Academic Suspension rescinded if they attend summer session at NMSU or one of its Community College campuses. Such attendance must raise the combined spring semester and summer GPA to 2.0 or better. Under no circumstances may a student on Academic Warning or Academic Probation be allowed to register for an overload. The current academic status is continued if the student withdraws from the university and the probation or suspension status applies to all subsequent enrollments until the cumulative GPA is 2.0 or higher.

Graduate Academic Probation and Suspension

Graduate Academic Standing is based on both the student's semester GPA and cumulative GPA. The student must maintain a cumulative GPA of 3.0 or higher to remain on Graduate Academic Good Standing.

Graduate Academic Probation I: A graduate student is placed on Graduate Academic Probation I when a graduate student's semester GPA is above a 3.0 and the cumulative GPA drops below 3.0; or when the semester and cumulative GPA's drop below 3.0 and the previous academic standing is Graduate Academic Good Standing.

Graduate Academic Probation II: Is issued when a graduate student semester GPA and the cumulative GPA drops below as 3.0 and the previous academic standing is one of Graduate Academic Probation I or Graduate Re-admit on Probation I.

Graduate Academic Suspension:

If the graduate student is unable to maintain a semester GPA of 3.0 or higher and the cumulative remains below 3.0 GPA while under Graduate Academic Probation II, the student will then be placed on Graduate Academic Suspension.

Students on Graduate Academic Suspension are barred from enrolling in graduate level courses at NMSU while on Suspension. Graduate students on Graduate Academic Suspension must sit out a minimum of one semester. Graduate students on suspension who wish to continue Graduate School after suspension must re-apply to the department and Graduate School. The student must also petition College Academic Dean or the Graduate School Dean, based on the major and degree the student is pursuing to be removed from Graduate Academic Suspension. At this time the graduate academic suspension status will be evaluated for possible readmission to the department. Should the suspension be lifted, the graduate student is placed on Graduate Academic Probation II or Graduate Re-admit on Probation II until such time that the graduate cumulative GPA equals or exceeds 3.0.

If you have questions about your academic standing, please contact your department academic advisor or Graduate Dean's office.

Student Academic Code of Conduct

The Student Academic Code of Conduct (SACC), applicable to both undergraduate and graduate students, provides procedures for the review and resolution of alleged or suspected academic misconduct within a reasonably prompt time frame. The full SACC is found in the university's published Administrative Rules and Procedures (ARP), specifically ARP 5.10 and ARP 5.11.

While it is important to refer to the detailed governing rules in the ARP, the process is summarized as follows: An institution-wide Academic Conduct Officer is responsible for processing each case of alleged academic misconduct. The accused student is provided notice of the allegation and has the right to participate during the fact finding process.

The student may contest the investigative findings or sanction before a neutral third party hearing panel member. Either party to the matter has the right to a final appeal of the findings or a Level II sanction to the Office of the Provost.

The SACC distinguishes between Level I Sanctions and Level II sanctions, depending upon the severity of the offense and other factors. The Level 1 sanction includes a formal warning. Offenses by graduate students

and repeat offenses, even if less serious are subject to a Level II Sanction. Level II sanctions include a notation of academic misconduct on the student's academic transcript.

The full policy, examples of academic misconduct, report form and a flowchart of the procedures for resolving alleged student academic misconduct is available at:

Policies

- ARP 5-10
- ARP 5-11

Examples of Academic Misconduct and Report Form

- · ARP Appendix 5.10-A (Examples)
- ARP Appendix 5.11-B (Form)

Flowchart of Procedures

· ARP Appendix 5.11-A

Privacy Rights

The following information has been designated as directory information and is subject to release to the public under the Buckley Amendment (PL 98-380), "The Family Educational Rights and Privacy Act of 1974." student's name, class level, college and major, dates of attendance, degree(s) earned, honors and awards, address, telephone number, NMSU email address, Aggie ID number, most recent previous educational institution attended, place of birth, and some information about students involved in recognized activities and sports.

Other information regarding disclosure of student data is posted on the <u>University Student Records Office website</u> and in the University Student Records Office (USRO), in compliance with the Act.

Requests for withholding directory information must be filed in writing with the USRO. A student may choose to hide his/her address and phone number from the campus phonebook through the myNMSU portal. This will only hide the information from the public but the records will still be officially kept within the USRO.

Social Security Numbers in Student Records

As required by law, social security numbers are collected from prospective and current students who are either applying for admission to the university or plan to seek employment on campus. The social security number is a confidential record and is maintained as such by the university in accordance with the Family Educational Rights and Privacy Act.

In addition, the university is mandated by federal tax regulations to provide tuition and fee payment information to the student and the Internal Revenue Service so that applicable educational tax credits may be computed. The social security number is required for tax reporting purposes.

Change in Demographic Information

Students wishing to make a legal name change, citizenship change, social security number update or a gender update can do so through the University Student Records Office (USRO). All students will need to fill out the "Demographic Change form" located at https://records.nmsu.edu/forms/ and provide one of the following documents to the USRO. Legal

name changes will only be processed for students currently enrolled at NMSU or any of its Community Colleges.

- Legal name change: students will need one legal documentation with the new name on it. This can be a Government Issued ID (drivers license, state card or valid passport), a Birth Certificate, a Court Order, a Marriage Certificate/Divorce Decree or a Certificate of Naturalization/I551 Card. Note: Documentation is not required to add/ delete hyphen, space, apostrophe, or to abbreviate a middle name to initial.
- 2. Citizenship change: Certificate of Naturalization or I551 card.
- Social Security Number Update: students will need to provide an original signed Social Security Card. Unsigned cards will not be accepted.
- Gender Update: students will need to bring a Government Issued ID (drivers license, state ID card or valid passport) and a Revised Birth Certificate

Students may update their "preferred name", which is the name used in lieu of a student's legal name, on certain documents, such as, the email display name, learning management system, the phonebook, class rosters and advisee lists. This can be done by the student through the myNMSU portal and does not need to be done at the USRO.

For more information about the specific documents that are needed please contact the University Student Records Office at (575) 646-3411.

Changes in Residency Status for Tuition Purposes

The University Student Records Office (USRO) does not determine the laws and rulings for determining Residency, these are state laws that the USRO simply administers. An individual must establish legal residency in New Mexico before he or she is entitled to pay in-state tuition rates.

The student's initial residency status is determined at the time of admission, any changes to this status must be initiated by the student through the USRO. A continuing student, classified as a non-resident, who has satisfied the requirements to establish residency may submit a Petition for In-State Residency Tuition Classification along with the required supporting documentation to the USRO Office. Petitions must be filed on or before the third Friday of the semester for which the student is requesting resident tuition.

For specific information about the process of petitioning for In-State Residency or for information about who is eligible for residency for tuition purposes please visit the https://records.nmsu.edu/residency/ website or the University Student Records Office on the Las Cruces campus.

Official Transcripts

An official transcript is the University's certified statement of your complete NMSU academic record in chronological order by semester and year. It includes the student's coursework, grades and any degrees that were awarded. Any credit hours earned through transfer work are listed as the equivalent course at NMSU. Grades are not transferred, nor are they used to calculate the NMSU grade point averages. Official transcripts will not be released if the student is in debt to the university.

Transcripts can either be ordered in person at the University Student Records Office or online at https://records.nmsu.edu/transcripts/, there will be a fee for these that may vary depending on the total number of transcripts ordered and the type of delivery method that is selected. A

student can request two types of transcripts an electronic one, which is sent as a secured PDF or a printed hard copy that can be delivered in a sealed envelope.

The name that will appear on the student's transcript will match the name on the student's official NMSU record. Name changes will only be processed for students currently enrolled at NMSU or any of its Community Colleges.

Purging of Student Files

All academic files for students who attend NMSU are kept for five (5) years following the student's final term enrolled. Only archival documentation will be retained. The files of students who do not enroll within one year after being admitted are destroyed.

Graduation Requirements

A student may specify choice of either the current catalog at the time of admittance or a subsequent catalog, provided the selected catalog is not more than six years old when (s)he satisfies the requirements for graduation. In all other cases, the student will be subject to the current catalog.

Students planning to graduate must clear all of their accounts with the DACC Cashiers Office. Delinquent accounts due to outstanding balances for tools, books, and personal materials should be cleared in the community college's Cashiers Office, located in DASR 102B.

Graduation with Honors

See the section titled, "<u>Recognition for Academic Achievement</u> (p. 27)."

Associate's Degree

Associate's degrees are of two types. The academic associate's degree prepares students to transfer to a baccalaureate program and generally includes credits toward the first two years of a four-year degree. Academic associate's degrees include the Associate of Arts, the Associate of Science, and other named degrees that link to a specific major (the Associate of Education, for example). Other associate degrees, typically called Associate of Applied Science, prepare students for entry into the workforce. Credits for these programs may or may not apply toward a four-year degree. Associate degree seeking students who are interested in a dual degree should consult with their academic advisor. The Associate of Arts and the Associate of Science degrees cannot be earned together. The Associate degrees.

Students interested in transferring to NMSU or another four-year institution should check the appropriate sections of the university catalog for more information.

Requirements for the two-year associate degrees are found in the respective catalogs and sections concerning these degrees. The following requirements apply to all associates degrees:

- Minimum Credit Hours: a minimum of 60 credits (excluding "N" suffix courses). Some programs of study require coursework in excess of the 60 credit-hour minimum.
- 2. **New Mexico General Education-** state mandated general education courses (as specified in General Education section); such course are designed with a "G"

- a. For Associates Degrees: 32-35 credits
- b. For Applied Associates Degrees: 15-18 credits
- GPA requirement: Students must have a cumulative GPA of 2.0 or better in all courses taken at NMSU or one of its community colleges. In addition, students must earn a C- or better in classes they take to meet the Basic Skills requirement (ENGL 1110G and one of several math course options),
- Residency A minimum of 15 of the 60 credits for the associate's degree must be completed at NMSU or one of its community colleges. Individual academic programs may have additional requirements.
- Major: All requirements for at least one major field of study as specified in the college and departmental sections of the respective catalog.

Associate Major

An associate major, consisting of at least 18 credits, may include courses from more than one department. Requirements for the Associate Majors are specified in the respective Community College Catalogs.

Certificate of Completion

The Certificate of Completion requires a minimum of 16 credits (other Title IV requirements must be met to be eligible for financial aid) and has been approved through the academic review process. These courses can be a subset of those required for a corresponding Applied Associates Degree. These certificates are recorded on the student's transcript.

Requirements for certificates are found in the respective catalogs and sections concerning these programs. The following requirements apply to all certificates.

- Minimum Credit Hours: The number of credit hours varies from certificate to certificate. Students must successfully complete the total number of credit hours as outlined in the respective catalogs and sections describing these certificates.
- GPA requirement: Students must successfully complete all courses for the certificate as outlined in the catalog. In addition, students must have a cumulative GPA of 2.0 or better in all courses taken at NMSU or one of its community colleges.
- 3. Residency: A minimum of 6 credits earned toward the certificate must be completed at NMSU or one of its community colleges. If the certificate requires fewer than 6 credits, all credits must be completed at NMSU or one of its community colleges. Individual academic programs may have additional requirements.

Certificate of Achievement

The Certificate of Achievement is a program of study less than 16 credits and is not eligible for Federal financial aid. This Certificate provides employment related and/or career enhancing skills necessary to succeed in a job or a chosen field of study. These courses can be a subset of those required for a corresponding Certificate of Completion or Applied Associates Degree. These certificates are recorded on the student's transcript. The following requirements apply to all certificates of achievements:

 Minimum Credit Hours: The number of credit hours varies from certificate to certificate but must be fewer than 16 credits. Students must successfully complete the total number of credit hours as outlined in the respective catalogs and sections describing these certificates.

- GPA requirement: Students must successfully complete all
 courses for the certificate as outlined in the catalog and and have
 a cumulative GPA of 2.0 or greater in all courses required for the
 certificate, but may have a cumulative GPA of less than 2.0 for
 courses taken outside of the certificate.
- 3. Residency: A minimum of 6 credits earned toward the certificate must be completed at NMSU or one of its community colleges. If the certificate requires fewer than 6 credits, all credits must be completed at NMSU or one of its community colleges. Individual academic programs may have additional requirements.

Filing Notice of Candidacy for a Degree or Certificate

Students are required to file Application for Degree for an associate degree or certificate and pay the graduation fee for each degree or certificate sought. This fee (\$25 for an associate degree; \$10 for a certificate) must be paid by the end of the semester or session in which the candidate anticipates completing degree requirements.

Filing an Application for Degree is accomplished by completing the appropriate online application.

- For an associate degree, go to the following web page and follow the instructions given there: https://dacc.nmsu.edu/student-services/99-2/
- For a certificate, go to the following web page and follow the instructions given there: http://dacc.nmsu.edu/students/certificate-of-completion-application/

Once the application is submitted electronically, the appropriate charge(s) will appear on the student's account, usually within 48 hours. Payment may then be made either in person at the DACC Cashiers Office, located in DASR 102B, over the telephone by credit card (575) 527-7513, or by accessing the student's account online via myNMSU. If degree requirements are not completed during the semester or session for which the student paid the fee, the student must reapply and pay any additional fees that may apply.

Students can apply for their associate degree through their myNMSU account. Certificate applications are available on the DACC website. A \$25 late fee applies to degree applications received after the first deadline, and no applications will be accepted after the final deadline. These deadlines are published in the *Schedule of Classes*.

The latest date for substitution or waiver of required courses for candidates for degrees is two weeks after the last date of registration for regular or summer terms. All fees and bills owed the university must be paid before a student may receive a diploma or transcript of credits. Graduation fees must be paid as listed in the section, "Tuition and Fees (p. 18)."

Diploma

Diplomas will be mailed to graduates approximately eight weeks after final grades have been processed by the Registrar's office, concluding a final degree audit by the individual Colleges. The diploma will be mailed to the address specified on the degree application, unless an address change has been requested before the end of the semester.

The name on the diploma will reflect the student's current official NMSU records. Name changes are processed only for currently admitted students. The degree title and major(s) will be printed on the diplomas, in accordance to the degree application award, determined by the academic

colleges. Academic honors will also be printed on the diplomas below the degree and major(s).

All fees and bills owed the university must be paid in full before a student may receive a diploma or transcript of credits.

Recognition of Degrees and Certificates

Degrees and certificates earned are recorded on the academic record, as are majors where applicable. Minors are also recorded for students completing all requirements for the bachelor's or graduate degree as of May 10, 1980.

Transcript of Credits

Recognition of degrees earned is made on the official transcript (academic record) of students completing all requirements for a degree or certificate. The official transcript is available in printed or electronic form.

Printed copies of the transcript may be requested either at the NMSU Registrar's Office (575) 646-3411) or online, fees may apply. For more information, visit https://registrar.nmsu.edu/transcripts/. No transcript of credits will be released if the student owes a debt to DACC/NMSU.

Attendance at Commencement

DACC certifies eligibility to participate in commencement exercises for students planning to receive an associate degree or a certificate.

DACC holds commencement exercises at the end of the spring semester in May. Eligible candidates for degrees and certificates are encouraged to participate in the commencement ceremony. Students wishing to participate in spring commencement prior to completing degree requirements in the following summer session should call (575) 527-7530 for specific requirements.

Developmental Studies, College Studies and General Education Courses

Developmental Studies Mission and Value Statement

Our mission is to provide general education and developmental instruction designed to meet individual educational goals and foster lifelong learning.

By providing rigorous curriculum through interdisciplinary instruction that honors and recognizes the academic and workforce needs of our diverse community of lifelong learners, the DACC developmental studies programs

- · are student-centered, and
- encourage students to become risk-taking and self-motivated learners.

Developmental/College Studies Courses

The Developmental Education courses at DACC are certified through the National Association of Developmental Education (NADE). Our developmental courses ascribe to the NADE's philosophy: Helping under-prepared students prepare, prepared students advance, and advanced students excel (NADE 2001-2006).

Developmental courses are designed to help students acquire the skills and attitudes necessary for college success. Developmental Studies includes English, math, reading, language, and study skills.

They are identified by an "N" that appears after the course number. Developmental Studies courses are included on the transcript and will be calculated in the academic grade point average, but do not count toward a degree.

On the other hand, College Studies courses do carry academic credit and are designed to help students acquire the attitudes and strategies necessary for college success.

Students' placement in developmental studies courses will be determined by one or more of the following instruments: ACT, SAT, Accuplacer, Math Placement Exam, and locally developed tests. Students must achieve a *C*-or better in courses with "CCD-" prefixes to continue with the next course.

Course descriptions appear near the end of this catalog and are listed by course prefix (the letters appearing before a course number). The various prefixes represent different areas of study as shown:

- · CCDE: Developmental English
- CCDL: Developmental Language (English as a Second Language)
- · CCDM: Developmental Mathematics
- · CCDR: Developmental Reading
- · COLL: College Studies

General Education Courses

General Education at NMSU provides all students with a broad foundation and common framework upon which to develop knowledge and skills, social consciousness and respect for self and others; thus enabling them to function responsibly and effectively now and in the future.

General education courses taught at DACC are lower-division, university-level courses that are the same as those taught at NMSU. They are identified by the "G" that appears after the course number. In addition to meeting DACC graduation requirements, they may also be used to meet requirements for bachelor's degree programs at NMSU.

DACC students are given priority in enrollment for general education courses taught at the Central and East Mesa campuses. The priority enrollment period ends two weeks prior to the beginning of each semester or summer session. Non-DACC students enrolled in the NMSU system may register for these courses after the priority enrollment period has ended.

General Education & Transfer Options

Many of the credits earned at Doña Ana Community College can be applied toward degrees at New Mexico State University, as well as at other colleges and universities. It must be noted, however, that courses are not automatically accepted for transfer credit, and they frequently must be evaluated by the receiving institution before transfer credit can be given. Because of such uncertainties, it is imperative for students considering transferring to another college or university to consult with their academic advisor prior to enrolling in courses at DACC.

The menu items on the left, under 'Transfer Options', link to information about courses and programs for which there are established transfer agreements.

General Education

The following core matrix of approved courses are guaranteed to transfer and meet general education requirements at any New Mexico public college or university. The New Mexico General Education Requirements commonly offered at DACC are listed here. For a complete list of all NMSU courses that meet the New Mexico General Education Requirements, consult the current NMSU Undergraduate Catalog.

Associates Degree

The New Mexico General Education Requirements

General Education at NMSU provides all students with a broad foundation and common framework upon which to develop knowledge and skills, social consciousness and respect for self and others, thus enabling them to function responsibly and effectively now and in the future. General education courses at NMSU can be identified by the G suffix.

In accordance to state law (<u>Post-Secondary Education Articulation Act</u>), the New Mexico Higher Education Department has established a statewide model for General Education. Within the General Education model, is nine credits of electives that will be determined at an institutional level. The current approved NMSU General Education courses are listed below under each of the six general education areas.

Prefix	Title	Credits
Area I: Communications		
Select one course from		
English Composition-Le	evel 1	
ENGL 1110G	Composition I	
ENGL 1110H	Composition I Honors	
ENGL 1110M	Composition I Multilingual	
English Composition-Le	evel 2	
ENGL 2210G	Professional & Technical Communication	
ENGL 2221G	Writing in the Humanities and Social Science	
ENGL 2130G	Advanced Composition	
ENGL 2215G	Advanced Technical and Professional Communication	
Oral Communication		
AXED 2120G	Effective Leadership and Communication in Agriculture	
COMM 1115G	Introduction to Communication	
COMM 1130G	Public Speaking	
HNRS 2175G	Introduction to Communications Honors	
Area II: Mathematics		3-4
MATH 1130G	Survey of Mathematics	
MATH 1220G	College Algebra	
MATH 1250G	Trigonometry & Pre-Calculus	
MATH 1350G	Introduction to Statistics	
MATH 1430G	Applications of Calculus I	
MATH 1511G	Calculus and Analytic Geometry I	
MATH 1521G	Calculus and Analytic Geometry II	
MATH 1521H	Calculus and Analytic Geometry II Honors	
MATH 2134G	Fundamentals of Elementary Math II	
MATH 2350G	Statistical Methods	
MATH 2530G	Calculus III	

Area III/IV: Laborator	y Sciences and Social/Behavioral Sciences ¹	10-11	CEPY 1120G	Human Growth and Behavior
Area III: Laboratory Sc	•	10-11	CJUS 1110G	Introduction to Criminal Justice
AGRO 1110G/	Introduction to Plant Science (Lecture & Lab)		ECON 1110G	Survey of Economics
HORT 1115G	introduction to Flant Science (Lecture & Lab)		ECON 2110G	Macroeconomic Principles
ANTH 1135G	Introduction to Biological Anthropology		ECON 2110H	Principles of Macroeconomics Honors
& ANTH 1135L	and Introduction to Biological Anthropology		ECON 2170H	Microeconomics Principles
	Lab		ECON 2120H	·
ASTR 1115G	Introduction Astro (lec+lab)			Principles of Microeconomics Honors
ASTR 1120G	The Planets		GEOG 1120G	World Regional Geography
BIOL 1120G	Human Biology		GEOG 1130G	Human Geography
& BIOL 1120L BIOL 1130G	and Human Biology Laboratory Introductory Anatomy & Physiology (non-		GNDR 2110G	Introduction to Women, Gender, and Sexuality Studies
	majors)		GNDR 2120G	Representing Women Across Cultures
BIOL 1190G	Contemporary Problems in Biology		HNRS 2161G	Window of Humanity
BIOL 2110G	Principles of Biology: Cellular and Molecular		HNRS 2170G	The Human Mind
& BIOL 2110L	Biology		HNRS 2172G	Archaeology: Search for the Past
	and Principles of Biology: Cellular and		HNRS 2174G	American Politics in a Changing World
	Molecular Biology Laboratory		HNRS 2180G	Citizen and State Great Political Issues
BIOL 2610G	Principles of Biology: Biodiversity, Ecology, and Evolution		JOUR 105G	Media and Society
& BIOL 2610L	and Principles of Biology: Biodiversity, Ecology,		LING 2110G	Introduction to the Study of Language and Linguistics
0.0.171.0	and Evolution Laboratory		PHLS 1110G	Personal Health & Wellness
C S 171G	Introduction to Computer Science		POLS 1110G	Introduction to Political Science
CHEM 1120G	Introduction to Chemistry Lecture and		POLS 1120G	American National Government
CHEM 12150	Laboratory (non majors)		POLS 1130G	Issues in American Politics
CHEM 1215G	General Chemistry I Lecture and Laboratory for STEM Majors		POLS 2120G	International Relations
CHEM 1225G	General Chemistry II Lecture and Laboratory		PSYC 1110G	Introduction to Psychology
OFFERN 12200	for STEM Majors		SOCI 1110G	Introduction to Sociology
ENVS 1110G	Environmental Science I		SOCI 2310G	Contemporary Social Problems
FSTE 1110G	Introduction to Food Science and Technology		SOWK 2110G	Introduction to Human Services & Social Work
FSTE 2110G	Food Science I		Area V: Humanities	3
FWCE 1110G	Introduction to Natural Resources		ENGL 1410G	Introduction to Literature
	Management		ENGL 2310G	Introduction to Creative Writing
GEOG 1110G	Physical Geography		ENGL 2520G	Film as Literature
GEOL 1110G	Physical Geology		ENGL 2650G	World Literature I
HNRS 2116G	Earth, Time and Life		HIST 1105G	Making History
PHYS 1115G	Survey of Physics with Lab		HIST 1110G	United States History I
PHYS 1125G	Physics of Music		HIST 1120G	United States History II
PHYS 1230G	Algebra-Based Physics I		HIST 1130G	World History I
& PHYS 1230L	and Algebra-Based Physics I Lab		HIST 1140G	World History II
PHYS 1240G	Algebra-Based Physics II		HIST 1150G	Western Civilization I
& PHYS 1240L	and Algebra-Based Physics II Lab		HIST 1160G	Western Civilization II
PHYS 1310G	Calculus -Based Physics I			
	•		HIS1 2245G	Islamic Civilizations to 1800
& PHYS 1310L	and Calculus -Based Physics I Lab		HIST 2245G HIST 2246G	
PHYS 1320G	and Calculus -Based Physics I Lab Calculus -Based Physics II		HIST 2246G	Islamic Civilizations since 1800
PHYS 1320G & PHYS 1320L	and Calculus -Based Physics I Lab Calculus -Based Physics II and Calculus -Based Physics II Lab		HIST 2246G HIST 2250G	Islamic Civilizations since 1800 East Asia to 1600
PHYS 1320G	and Calculus -Based Physics I Lab Calculus -Based Physics II and Calculus -Based Physics II Lab General Physics for Life Science I and Laboratory to General Physics for Life		HIST 2246G	Islamic Civilizations since 1800 East Asia to 1600 East Asia since 1600 The Present in the Past: Contemporary Issues
PHYS 1320G & PHYS 1320L PHYS 2230G	and Calculus -Based Physics I Lab Calculus -Based Physics II and Calculus -Based Physics II Lab General Physics for Life Science I and Laboratory to General Physics for Life Science I General Physics for Life Science II and Laboratory to General Physics for Life		HIST 2246G HIST 2250G HIST 2251G HNRS 2110G HNRS 2117G	Islamic Civilizations since 1800 East Asia to 1600 East Asia since 1600 The Present in the Past: Contemporary Issues and their Historical Roots The World of the Renaissance: Discovering the Modern
PHYS 1320G & PHYS 1320L PHYS 2230G & PHYS 2230L PHYS 2240G & PHYS 2240L	and Calculus -Based Physics I Lab Calculus -Based Physics II and Calculus -Based Physics II Lab General Physics for Life Science I and Laboratory to General Physics for Life Science I General Physics for Life Science II and Laboratory to General Physics for Life Science II		HIST 2246G HIST 2250G HIST 2251G HNRS 2110G HNRS 2117G HNRS 2120G	Islamic Civilizations since 1800 East Asia to 1600 East Asia since 1600 The Present in the Past: Contemporary Issues and their Historical Roots The World of the Renaissance: Discovering the Modern Foundations of Western Culture
PHYS 1320G & PHYS 1320L PHYS 2230G & PHYS 2230L PHYS 2240G & PHYS 2240L Area IV: Social/Behavi	and Calculus -Based Physics I Lab Calculus -Based Physics II and Calculus -Based Physics II Lab General Physics for Life Science I and Laboratory to General Physics for Life Science I General Physics for Life Science II and Laboratory to General Physics for Life Science II oral Sciences		HIST 2246G HIST 2250G HIST 2251G HNRS 2110G HNRS 2117G HNRS 2120G HNRS 2140G	Islamic Civilizations since 1800 East Asia to 1600 East Asia since 1600 The Present in the Past: Contemporary Issues and their Historical Roots The World of the Renaissance: Discovering the Modern Foundations of Western Culture Plato and the Discovery of Philosophy
PHYS 1320G & PHYS 1320L PHYS 2230G & PHYS 2230L PHYS 2240G & PHYS 2240L Area IV: Social/Behavi	and Calculus -Based Physics I Lab Calculus -Based Physics II and Calculus -Based Physics II Lab General Physics for Life Science I and Laboratory to General Physics for Life Science I General Physics for Life Science II and Laboratory to General Physics for Life Science II		HIST 2246G HIST 2250G HIST 2251G HNRS 2110G HNRS 2117G HNRS 2120G	Islamic Civilizations since 1800 East Asia to 1600 East Asia since 1600 The Present in the Past: Contemporary Issues and their Historical Roots The World of the Renaissance: Discovering the Modern Foundations of Western Culture
PHYS 1320G & PHYS 1320L PHYS 2230G & PHYS 2230L PHYS 2240G & PHYS 2240L Area IV: Social/Behavi AEEC/FSTE 21300	and Calculus -Based Physics I Lab Calculus -Based Physics II and Calculus -Based Physics II Lab General Physics for Life Science I and Laboratory to General Physics for Life Science I General Physics for Life Science II and Laboratory to General Physics for Life Science II oral Sciences G Survey of Food and Agricultural Issues		HIST 2246G HIST 2250G HIST 2251G HNRS 2110G HNRS 2117G HNRS 2120G HNRS 2140G	Islamic Civilizations since 1800 East Asia to 1600 East Asia since 1600 The Present in the Past: Contemporary Issues and their Historical Roots The World of the Renaissance: Discovering the Modern Foundations of Western Culture Plato and the Discovery of Philosophy Bamboo and Silk: The Fabric of Chinese
PHYS 1320G & PHYS 1320L PHYS 2230G & PHYS 2230L PHYS 2240G & PHYS 2240L Area IV: Social/Behavi AEEC/FSTE 21300 ANTH 1115G	and Calculus -Based Physics I Lab Calculus -Based Physics II and Calculus -Based Physics II Lab General Physics for Life Science I and Laboratory to General Physics for Life Science I General Physics for Life Science II and Laboratory to General Physics for Life Science II foral Sciences G Survey of Food and Agricultural Issues Introduction to Anthropology		HIST 2246G HIST 2250G HIST 2251G HNRS 2110G HNRS 2117G HNRS 2120G HNRS 2140G HNRS 2141G	Islamic Civilizations since 1800 East Asia to 1600 East Asia since 1600 The Present in the Past: Contemporary Issues and their Historical Roots The World of the Renaissance: Discovering the Modern Foundations of Western Culture Plato and the Discovery of Philosophy Bamboo and Silk: The Fabric of Chinese Literature
PHYS 1320G & PHYS 1320L PHYS 2230G & PHYS 2230L PHYS 2240G & PHYS 2240L Area IV: Social/Behavi AEEC/FSTE 21300 ANTH 1115G ANTH 1137G	and Calculus -Based Physics I Lab Calculus -Based Physics II and Calculus -Based Physics II Lab General Physics for Life Science I and Laboratory to General Physics for Life Science I General Physics for Life Science II and Laboratory to General Physics for Life Science II oral Sciences Survey of Food and Agricultural Issues Introduction to Anthropology Human Ancestors		HIST 2246G HIST 2250G HIST 2251G HNRS 2110G HNRS 2117G HNRS 2120G HNRS 2140G HNRS 2141G	Islamic Civilizations since 1800 East Asia to 1600 East Asia since 1600 The Present in the Past: Contemporary Issues and their Historical Roots The World of the Renaissance: Discovering the Modern Foundations of Western Culture Plato and the Discovery of Philosophy Bamboo and Silk: The Fabric of Chinese Literature Celtic Literature

HNRS 2185G	Democracies, Despots and Daily Life	
HNRS 2190G	Claiming a Multiracial Past	
PHIL 1115G	Introduction to Philosophy	
PHIL 1120G	Logic, Reasoning, & Critical Thinking	
PHIL 1140G	Quest for God	
PHIL 1145G	Philosophy, Law, and Ethics	
PHIL 1155G	Philosophy of Music	
PHIL 2110G	Introduction to Ethics	
PHIL 2230G	Philosophical Thought	
rea VI: Creative and	Fine Arts	3
ARTH 1115G	Orientation in Art	
ARTS 1145G	Visual Concepts	
ARTH 2110G	History of Art I	
ARTH 2120G	History of Art II	
DANC 1110G	Dance Appreciation	
HNRS 2114G	Music in Time and Space	
HNRS 2115G	Encounters with Art	
HNRS 2130G	Shakespeare on Film	
HNRS 2178G	Theatre: Beginnings to Broadway	
MUSC 1110G	Music Appreciation: Jazz	
MUSC 1130G	Music Appreciation: Western Music	
THEA 1110G	Introduction to Theatre	
THEA 1210G	Acting for Non-Majors	
eneral Education Ele	ctive	3-4
•	an be met with any 'G' course in any area, ommunications and any crosslisted courses, that num requirement.	
or		
ENGR 100G	Introduction to Engineering	
or ENGR 100GF	Introduction to Engineering Honors	
otal Credits		32-35

For Area III: Laboratory Sciences and Area IV: Social/Behavioral Sciences, students <u>must</u> take one course from each for a total of 7 credits.

Students will then take an additional course in either Area III or Area IV for 3-4 credits depending on the students selection (i.e. Area III is 4 credits, Area IV is 3 credits).

Alternatives for Meeting General Education Requirements

Students taking nine or more credits in a specific subject area, even though the courses are not designated as General Education courses, will have met the general education requirements for that subject area. For example, a student may complete ARTS 2610 Drawing II, ARTS 1240 Design I and ARTS 1250 Design II (9 hours) and thereby satisfy one course from the Area VI: Creative and Fine Arts category, even though none of those courses carries a G suffix. Please check with the Center for Academic Advising and Student Support.

Transferring Courses Within Degree Programs

To facilitate the transfer of courses within certain degree programs, New Mexico colleges and universities have collaborated to develop transferable discipline modules. These are made up of an agreed-upon number of hours and courses. When discipline module courses are taken in addition to the 35-hour general education core, the total number of hours in a transfer module are approximately 64.

Student Responsibility in the Transfer Process

New Mexico's colleges and universities have collaborated to produce guides to assist students who plan to transfer before completing a program of study. Course modules are designed to help students select courses carefully so that they may transfer with little or no loss of credit. However, planning for effective transfer with maximum efficiency is ultimately the student's responsibility. Responsible transfer planning includes early and regular consultation with the intended degree-granting institution to assure that all pre-transfer coursework will meet the requirements of the desired degree.

Transfer Credit Appeal Process

All New Mexico public post-secondary institutions are required to establish policies for receiving and resolving complaints from students or from other complainants regarding the transfer of coursework from other public institutions in the state. A copy of NMSU's transfer credit policy may be obtained from the University Registrar's Office, or from:

Deputy Secretary for Academic Affairs Higher Education Dept. 2048 Galisteo St. Santa Fe, NM 87505-2100

Applied Associates Degree

The New Mexico General Education Requirements

General Education at NMSU provides all students with a broad foundation and common framework upon which to develop knowledge and skills, social consciousness and respect for self and others, thus enabling them to function responsibly and effectively now and in the future. General education courses at NMSU can be identified by the G suffix.

In accordance to state law (<u>Post-Secondary Education Articulation Act</u>), the New Mexico Higher Education Department has established a statewide model for General Education. Within the General Education model, is nine credits of electives that will be determined at an institutional level. The current approved NMSU General Education courses are listed below under each of the six general education areas.

Prefix	Title	Credits
Select one course	from four of the following six content areas for a	12-14
total of 12 14 are	dita	

Each course selected must be from a different area and students cannot take multiple courses in the same area.

Area I: Communications

•	area i. Communication	
	AXED 2120G	Effective Leadership and Communication in Agriculture
	COMM 1115G	Introduction to Communication
	COMM 1130G	Public Speaking
	ENGL 1110G	Composition I
	ENGL 1110H	Composition I Honors
	ENGL 1110M	Composition I Multilingual
	ENGL 2210G	Professional & Technical Communication
	ENGL 2210H	Professional and Technical Communication Honors
	ENGL 2221G	Writing in the Humanities and Social Science
	HNRS 2175G	Introduction to Communications Honors
Area II: Mathematic		
	MATH 1130G	Survey of Mathematics
	MATH 1220G	College Algebra
	MATH 1250G	Trigonometry & Pre-Calculus

	MATH 1350G	Introduction to Statistics	PHYS 2240G	General Physics for Life Science II
	MATH 1430G	Applications of Calculus I	& PHYS 2240L	and Laboratory to General Physics for Life Science II
	MATH 1511G	Calculus and Analytic Geometry I	Area IV: Social/Behavior	
	MATH 1521G	Calculus and Analytic Geometry II		Survey of Food and Agricultural Issues
	MATH 1521H	Calculus and Analytic Geometry II Honors	ANTH 1115G	Introduction to Anthropology
	MATH 2134G	Fundamentals of Elementary Math II	ANTH 1137G	Human Ancestors
	MATH 2350G	Statistical Methods	ANTH 1140G	Introduction to Cultural Anthropology
	MATH 2530G	Calculus III	ANTH 1160G	World Archaeology
A	rea III: Laboratory Scie		ANTH 2140G	Indigenous Peoples of North America
	AGRO 1110G/	Introduction to Plant Science (Lecture & Lab)	CEPY 1120G	Human Growth and Behavior
	HORT 1115G	Industrial As District Andrews	CJUS 1110G	Introduction to Criminal Justice
	ANTH 1135G & ANTH 1135L	Introduction to Biological Anthropology and Introduction to Biological Anthropology	ECON 1110G	Survey of Economics
	Q7111111100E	Lab	ECON 2110G	Macroeconomic Principles
	ASTR 1115G	Introduction Astro (lec+lab)	ECON 2110H	Principles of Macroeconomics Honors
	ASTR 1120G	The Planets	ECON 2120G	Microeconomics Principles
	BIOL 1120G	Human Biology	ECON 2120H	Principles of Microeconomics Honors
	& BIOL 1120L	and Human Biology Laboratory	GEOG 1120G	World Regional Geography
	BIOL 1130G	Introductory Anatomy & Physiology (non-	GEOG 1130G	Human Geography
		majors)	GNDR 2110G	Introduction to Women, Gender, and Sexuality
	BIOL 1190G	Contemporary Problems in Biology	01121100	Studies
	BIOL 2110G	Principles of Biology: Cellular and Molecular	GNDR 2120G	Representing Women Across Cultures
	& BIOL 2110L	Biology and Principles of Biology: Cellular and	HNRS 2161G	Window of Humanity
		Molecular Biology Laboratory	HNRS 2170G	The Human Mind
	BIOL 2610G	Principles of Biology: Biodiversity, Ecology, and	HNRS 2172G	Archaeology: Search for the Past
	& BIOL 2610L	Evolution	HNRS 2174G	American Politics in a Changing World
		and Principles of Biology: Biodiversity, Ecology,	HNRS 2180G	Citizen and State Great Political Issues
		and Evolution Laboratory	JOUR 105G	Media and Society
	C S 171G	Introduction to Computer Science	LING 2110G	Introduction to the Study of Language and
	CHEM 1120G	Introduction to Chemistry Lecture and Laboratory (non majors)		Linguistics
	CHEM 1215G	General Chemistry I Lecture and Laboratory for	PHLS 1110G	Personal Health & Wellness
	011EW 12100	STEM Majors	POLS 1110G	Introduction to Political Science
	CHEM 1225G	General Chemistry II Lecture and Laboratory	POLS 1120G	American National Government
		for STEM Majors	POLS 1130G	Issues in American Politics
	CHEM 1215G	General Chemistry I Lecture and Laboratory for	POLS 2120G	International Relations
		STEM Majors	PSYC 1110G	Introduction to Psychology
	CHEM 1225G	General Chemistry II Lecture and Laboratory	SOCI 1110G	Introduction to Sociology
	E111/0.111.00	for STEM Majors	SOCI 2310G	Contemporary Social Problems
	ENVS 1110G	Environmental Science I	SOWK 2110G	Introduction to Human Services & Social Work
	FSTE 1110G	Introduction to Food Science and Technology	Area V: Humanities	Indianal cading to Literature
	FSTE 2110G	Food Science I	ENGL 1410G	Introduction to Literature
	GEOG 1110G	Physical Geography	ENGL 2310G	Introduction to Creative Writing Film as Literature
	GEOL 1110G	Physical Geology	ENGL 2520G	
	HNRS 2116G	Earth, Time and Life	ENGL 2650G	World Literature I
	PHYS 1115G PHYS 1125G	Survey of Physics with Lab	HIST 11105G	Making History
		Physics of Music	HIST 1110G HIST 1120G	United States History II
	PHYS 1230G & PHYS 1230L	Algebra-Based Physics I and Algebra-Based Physics I Lab	HIST 1130G	United States History II World History I
	PHYS 1240G	Algebra-Based Physics II	HIST 1140G	World History II
	& PHYS 1240L	and Algebra-Based Physics II Lab	HIST 1150G	Western Civilization I
	PHYS 1310G	Calculus -Based Physics I	HIST 1160G	Western Civilization II
	& PHYS 1310L	and Calculus -Based Physics I Lab	HIST 2245G	Islamic Civilizations to 1800
	PHYS 1320G	Calculus -Based Physics II	HIST 2246G	Islamic Civilizations to 1800
	& PHYS 1320L	and Calculus -Based Physics II Lab	HIST 2250G	East Asia to 1600
	PHYS 2230G	General Physics for Life Science I	HIST 2251G	East Asia since 1600
	& PHYS 2230L	and Laboratory to General Physics for Life Science I	HNRS 2110G	The Present in the Past: Contemporary Issues
				and their Historical Roots

HNRS 2117G	The World of the Renaissance: Discovering the Modern	
HNRS 2120G	Foundations of Western Culture	
HNRS 2140G	Plato and the Discovery of Philosophy	
HNRS 2141G	Bamboo and Silk: The Fabric of Chinese Literature	
HNRS 2145G	Celtic Literature	
HNRS 2160G	New Testament as Literature	
HNRS 2171G	The Worlds of Arthur	
HNRS 2173G	Middle Ages	
HNRS 2185G	Democracies, Despots and Daily Life	
HNRS 2190G	Claiming a Multiracial Past	
PHIL 1115G	Introduction to Philosophy	
PHIL 1120G	Logic, Reasoning, & Critical Thinking	
PHIL 1140G	Quest for God	
PHIL 1145G	Philosophy, Law, and Ethics	
PHIL 1155G	Philosophy of Music	
PHIL 2110G	Introduction to Ethics	
PHIL 2230G	Philosophical Thought	
Area VI: Creative and Fir	ne Arts	
ARTH 1115G	Orientation in Art	
ARTS 1145G	Visual Concepts	
ARTH 2110G	History of Art I	
ARTH 2120G	History of Art II	
DANC 1110G	Dance Appreciation	
HNRS 2114G	Music in Time and Space	
HNRS 2115G	Encounters with Art	
HNRS 2130G	Shakespeare on Film	
HNRS 2178G	Theatre: Beginnings to Broadway	
MUSC 1110G	Music Appreciation: Jazz	
MUSC 1130G	Music Appreciation: Western Music	
THEA 1110G	Introduction to Theatre	
THEA 1210G	Acting for Non-Majors	
General Education Elec	tive	3-4
This requirement ca excluding any cross	in be met with any 'G' course in any area, :listed courses.	
or		
ENGR 100G	Introduction to Engineering	
or ENGR 100GH	Introduction to Engineering Honors	
Total Credits		15-18

Alternatives for Meeting General Education Requirements

Students taking nine or more credits in a specific subject area, even though the courses are not designated as General Education courses, will have met the general education requirements for that subject area. For example, a student may complete ARTS 2610 Drawing II, ARTS 1240 Design I and ARTS 1250 Design II (9 hours) and thereby satisfy one course from the Area VI: Creative and Fine Arts category, even though none of those courses carries a G suffix. Please check with the Center for Academic Advising and Student Support.

Applying DACC Credit Toward Bachelor's Degree Programs

Many DACC courses may be accepted at NMSU and other New Mexico public colleges and universities. When planning to apply DACC credits

toward a bachelor's degree program, it is best to consult with advisors at both DACC and the university that has been selected for continued study.

Articulated Programs of Study

A DACC program is said to be "articulated" when, with adequate planning, a majority of the credits earned in the DACC program may be used to satisfy degree requirements for a baccalaureate degree at another institution. Articulation plans have been developed for the following DACC programs:

- Any associate degree earned at DACC may be applied in its entirety toward the Bachelor of Applied Studies or Bachelor of Individualized Studies degrees offered by the NMSU College of Arts and Sciences.
- · Associate of Arts Degree to the NMSU College of Arts and Sciences
- Associate of Science Degree to the NMSU College of Arts and Sciences
- Computer- and technology-related associate degree programs to the NMSU Information and Communication Technology bachelor's degree program in the Engineering Technology Department, College of Engineering
- Computer- and technology-related associate degree programs to programs leading to the Bachelor of Applied Science in Operations Management and Supervision and the Bachelor of Applied Science in Career and Technical Teacher Education at Western New Mexico University
- Criminal Justice to the Department of Criminal Justice in the NMSU College of Arts and Sciences
- Dental Hygiene to the Bachelor of Science in Dental Hygiene at University of New Mexico
- Early Childhood Education and Education programs to the NMSU College of Education
- General Engineering to bachelor's degree programs in the NMSU College of Engineering
- Hospitality Services Management to the School of Hotel, Restaurant and Tourism Management in the NMSU College of Agricultural, Consumer and Environmental Sciences
- Pre-Architecture to the UNM School of Architecture and Planning and Texas Tech University
- Pre-Business to the NMSU College of Business
- Public Health to the Department of Health Science, NMSU College of Health and Social Services

Partially Articulated Programs

A significant number of the credits earned in the following associate degree programs at DACC will apply toward meeting bachelor's degree requirements of specified departments at NMSU:

- Any associate degree in allied health to the Department of Health Science in the College of Health and Social Services
- Aerospace Technology to the Mechanical Engineering Technology bachelor's degree program in the NMSU College of Engineering
- Automation and Manufacturing Technology to the Mechanical Engineering Technology bachelor's degree program in the NMSU College of Engineering
- Business Management to the Department of Agricultural Economics and Agricultural Business in the College of Agricultural, Consumer and Environmental Sciences

- Civil/Survey Technology (Drafting and Graphics Technologies Program) to the Civil Engineering Technology bachelor's degree program in the NMSU College of Engineering
- Computer- and technology-related associate degree programs to the Information Engineering Technology bachelor's degree program in the Department of Engineering Technology, NMSU College of Engineering
- Creative Media Technology to the Creative Media degree program at the NMSU Creative Media Institute
- Electronics Technology to the Department of Engineering Technology in the NMSU College of Engineering
- Hospitality and Tourism to the School of Hospitality, Restaurant, and Tourism Management, College of Agricultural, Consumer and Environmental Sciences
- Mechanical Drafting and Solid Marketing to the Mechanical Engineering Technology bachelor's degree in the NMSU College of Engineering
- · Surveying Technology to
- Nursing to the Department of Nursing, College of Health and Social Services
- Surveying Technology to the Geomatics bachelor's degree program in the NMSU College of Engineering
- Career Technical Education programs. Those planning to teach at the secondary level may apply between 18 and 32 credits of technical subject matter earned in the following DACC programs toward the technology teaching licensure program offered within the bachelor of science degree program in Agricultural and Extension Education (College of Agricultural, Consumer and Environmental Sciences):
 - · Automation and Manufacturing Technology;
 - · Automotive Technology;
 - · Building Construction Technology;
 - · Computer and Information Technology;
 - · Creative Media Technology;
 - · Drafting and Design Technologies;

- · Electrical Programs;
- · Electronics Technology;
- · Environmental and Energy Technologies;
- · Heating, Ventilation, Air Conditioning and Refrigeration;
- · Water Technology;
- · Welding Technology; and
- · the Associate of General Studies program.

NOTE: Students who plan to transfer to another institution should always consult that institution's catalog for the most current information.

Common Course Numbering Crosswalk

The Post-secondary Education Articulation Act charges the New Mexico Higher Education Department with establishing and maintaining a common course numbering system, in consultation with faculty. To this end, the common course numbering system includes both equivalent (Common) and unique courses.

- Common Course: is any course that is offered at multiple institutions
 throughout the state, has the same prefix/number combination, the
 same title, the same description, and at least 80% of the learning
 outcomes for the course are the same.
- Unique Course: is any course that is unique to the institution (the NMSU system), has a prefix/number combination, title, description and learning outcomes that are unique to the institution (the NMSU System).

The table below shows the previous NMSU System-wide course prefix/ number combination, the future Common Course Numbering prefix/ number combination, and an indicator of whether the course is deemed Common or Unique throughout the state.

Current Course	Past Course	Course Type Indicator
ACCT-ACCOUNTING		
ACCT 2110	ACCT 221	Common
ACCT 2120	ACCT 222	Common
ACES-AGRI, CONSUMER & ENV SCIE		
ACES 1210	ACES 121	Unique
ACES 1220	ACES 199	Unique
AEEC-AGRICULTURAL ECONOMICS		
AEEC 1110	AG E 100	Common
AEEC 1120	AG E 101	Unique
AEEC 2110	AG E 236	Unique
AEEC 2120	AG E 260	Unique
AEEC 2130G	AG E 210G	Unique
AEEC 2140	AG E 250	Unique
AEEC 2996	AG E 200	Unique
AEEC 300	AG E 300	N/A
AEEC 305	AG E 305	N/A
AEEC 311	AG E 311	N/A
AEEC 313	AG E 313	N/A
AEEC 314	AG E 314	N/A
AEEC 315V	AG E 315V	N/A

AEEC 325	AG E 325	N/A
AEEC 337V	AG E 337	N/A
AEEC 340	AG E 340	N/A
AEEC 342	AG E 342	N/A
AEEC 350	AG E 350	N/A
AEEC 375	AG E 375	N/A
AEEC 384	AG E 384	N/A
AEEC 385	AG E 385	N/A
AEEC 400	AG E 400	N/A
AEEC 406	AG E 406	N/A
AEEC 420	AG E 420	N/A
AEEC 425	AG E 425	N/A
AEEC 445V	AG E 445V	N/A
AEEC 451	AG E 451	N/A
AEEC 452	AG E 452	N/A
AEEC 456	AG E 456	N/A
AEEC 458	AG E 458	N/A
AEEC 470	AG E 470	N/A
AEEC 499	AG E 499	N/A
AGRO-AGRONOMY		
AGRO 1110G	AGRO 100G	Common
AGRO 2160	AGRO 250	Unique
AGRO 2996	AGRO 200	Unique
ANSC-ANIMAL SCIENCE		
ANSC 1110	ANSC 220	Common
ANSC 1120	ANSC 100	Common
ANSC 1120H	ANSC 100 H	Unique
ANSC 1120L	ANSC 100 L	Unique
ANSC 1130	ANSC 190	Unique
ANSC 1140	ANSC 205	Unique
ANSC 1160	ANSC 103	Unique
ANSC 1170	ANSC 261	Unique
ANSC 1180	ANSC 112	Unique
ANSC 2120	ANSCITZ	Official
	ANSC 288	
	ANSC 288	Common
ANSC 2130	ANSC 290	Common Common
ANSC 2130 ANSC 2140	ANSC 290 ANSC 285	Common Common Unique
ANSC 2130 ANSC 2140 ANSC 2150	ANSC 290 ANSC 285 ANSC 289	Common Common Unique Unique
ANSC 2130 ANSC 2140 ANSC 2150 ANSC 2160	ANSC 290 ANSC 285 ANSC 289 ANSC 295	Common Common Unique Unique Unique
ANSC 2130 ANSC 2140 ANSC 2150 ANSC 2160 ANSC 2310	ANSC 290 ANSC 285 ANSC 289 ANSC 295 ANSC 262	Common Common Unique Unique Unique Common
ANSC 2130 ANSC 2140 ANSC 2150 ANSC 2160 ANSC 2310 ANSC 2330	ANSC 290 ANSC 285 ANSC 289 ANSC 295 ANSC 262 ANSC 200	Common Common Unique Unique Unique Common Common
ANSC 2130 ANSC 2140 ANSC 2150 ANSC 2160 ANSC 2310 ANSC 2330 ANSC 2340	ANSC 290 ANSC 285 ANSC 289 ANSC 295 ANSC 262 ANSC 200 ANSC 201	Common Common Unique Unique Unique Common Common Common
ANSC 2130 ANSC 2140 ANSC 2150 ANSC 2160 ANSC 2310 ANSC 2330 ANSC 2340 ANSC 2996	ANSC 290 ANSC 285 ANSC 289 ANSC 295 ANSC 262 ANSC 200	Common Common Unique Unique Unique Common Common
ANSC 2130 ANSC 2140 ANSC 2150 ANSC 2160 ANSC 2310 ANSC 2330 ANSC 2340 ANSC 2996 ANTH-ANTHROPOLOGY	ANSC 290 ANSC 285 ANSC 289 ANSC 295 ANSC 262 ANSC 200 ANSC 201 ANSC 250	Common Common Unique Unique Unique Common Common Unique
ANSC 2130 ANSC 2140 ANSC 2150 ANSC 2160 ANSC 2310 ANSC 2330 ANSC 2340 ANSC 2996 ANTH-ANTHROPOLOGY ANTH 1115G	ANSC 290 ANSC 285 ANSC 289 ANSC 295 ANSC 262 ANSC 200 ANSC 201 ANSC 250 ANTH 201G	Common Common Unique Unique Unique Common Common Common Unique Common Unique
ANSC 2130 ANSC 2140 ANSC 2150 ANSC 2160 ANSC 2310 ANSC 2330 ANSC 2340 ANSC 2996 ANTH-ANTHROPOLOGY ANTH 1115G ANTH 1135G	ANSC 290 ANSC 285 ANSC 289 ANSC 295 ANSC 262 ANSC 200 ANSC 201 ANSC 250 ANTH 201G ANTH 130G	Common Common Unique Unique Unique Common Common Unique Common Common Common Unique
ANSC 2130 ANSC 2140 ANSC 2150 ANSC 2160 ANSC 2310 ANSC 2330 ANSC 2340 ANSC 2996 ANTH-ANTHROPOLOGY ANTH 1115G ANTH 1135G ANTH 1135L	ANSC 290 ANSC 285 ANSC 289 ANSC 295 ANSC 262 ANSC 200 ANSC 201 ANSC 250 ANTH 201G ANTH 130G ANTH 130GL	Common Common Unique Unique Unique Common Common Unique Common Common Common Common Common Common Common
ANSC 2130 ANSC 2140 ANSC 2150 ANSC 2160 ANSC 2310 ANSC 2330 ANSC 2340 ANSC 2996 ANTH-ANTHROPOLOGY ANTH 1115G ANTH 1135G ANTH 1135L ANTH 1136	ANSC 290 ANSC 285 ANSC 289 ANSC 295 ANSC 262 ANSC 200 ANSC 201 ANSC 250 ANTH 201G ANTH 130G ANTH 130GL ANTH 118	Common Common Unique Unique Unique Common Common Unique Common Unique Common Unique
ANSC 2130 ANSC 2140 ANSC 2150 ANSC 2160 ANSC 2310 ANSC 2330 ANSC 2340 ANSC 2996 ANTH-ANTHROPOLOGY ANTH 1115G ANTH 1135G ANTH 1135L ANTH 1136	ANSC 290 ANSC 285 ANSC 289 ANSC 295 ANSC 262 ANSC 200 ANSC 201 ANSC 250 ANTH 201G ANTH 130G ANTH 130GL ANTH 118 ANTH 120G	Common Common Unique Unique Unique Common Common Unique Common Unique Common Unique Unique Unique Unique
ANSC 2130 ANSC 2140 ANSC 2150 ANSC 2160 ANSC 2310 ANSC 2330 ANSC 2340 ANSC 2996 ANTH-ANTHROPOLOGY ANTH 1115G ANTH 1135G ANTH 1135L ANTH 1137G ANTH 1137G ANTH 1140G	ANSC 290 ANSC 285 ANSC 289 ANSC 295 ANSC 262 ANSC 200 ANSC 201 ANSC 250 ANTH 201G ANTH 130G ANTH 130G ANTH 118 ANTH 120G ANTH 125G	Common Common Unique Unique Unique Common Common Unique Common Unique Unique Unique Common Common Common Common Common Common Common Common
ANSC 2130 ANSC 2140 ANSC 2150 ANSC 2160 ANSC 2310 ANSC 2330 ANSC 2340 ANSC 2996 ANTH-ANTHROPOLOGY ANTH 1115G ANTH 1135G ANTH 1135L ANTH 1137G ANTH 1137G ANTH 1140G ANTH 1160G	ANSC 290 ANSC 285 ANSC 289 ANSC 295 ANSC 262 ANSC 200 ANSC 201 ANSC 250 ANTH 201G ANTH 130G ANTH 130GL ANTH 118 ANTH 125G ANTH 202G	Common Common Unique Unique Unique Common Common Unique Common Unique Common Unique Unique Common
ANSC 2130 ANSC 2140 ANSC 2150 ANSC 2160 ANSC 2310 ANSC 2330 ANSC 2340 ANSC 2996 ANTH-ANTHROPOLOGY ANTH 1115G ANTH 1135G ANTH 1135L ANTH 1137G ANTH 1137G ANTH 1140G	ANSC 290 ANSC 285 ANSC 289 ANSC 295 ANSC 262 ANSC 200 ANSC 201 ANSC 250 ANTH 201G ANTH 130G ANTH 130G ANTH 118 ANTH 120G ANTH 125G	Common Common Unique Unique Unique Common Common Common Unique Common Unique Unique Unique Common

ANTH 2996	ANTH 297	Unique
ARCH-ARCHITECTURE		
ARCH 1105	ARCT 150	Unique
ARCH 1110	ARCT 104	Common
ARCH 1112	ARCT 124	Unique
ARCH 1114	ARCT 154	Unique
ARCH 1120	ARCT 101	Common
ARCH 1121	ARCT 170	Unique
ARCH 1122	ARCT 204	Unique
ARCH 1220	ARCT 111	Unique
ARCH 2111	ARCT 210	Unique
ARCH 2113	ARCT 224	Unique
ARCH 2114	ARCT 250	Unique
ARCH 2115	ARCT 254	Unique
ARCH 2116	ARCT 260	Unique
ARCH 2122	ARCT 274	Unique
ARCH 2124	ARCT 295	Unique
ARCH 2220	ARCT 211	Unique
ARCH 2994	ARCT 264	Unique
ARCH 2995	ARCT 291	Unique
ARCH 2996	ARCT 290	Unique
ARTH-ART HISTORY		·
ARTH 1115G	ART 101G	Common
ARTH 2110G	ART 295G	Common
ARTH 2120G	ART 296G	Common
ARTH 300	ART 300	N/A
ARTH 305	ART 305	N/A
ARTH 306	ART 306	N/A
ARTH 310	ART 310	N/A
ARTH 311	ART 311	N/A
ARTH 312	ART 312	N/A
ARTH 321	ART 321	N/A
ARTH 323	ART 323	N/A
ARTH 325	ART 325	N/A
ARTH 329	ART 329	N/A
ARTH 330	ART 330	N/A
ARTH 333	ART 333	N/A
ARTH 336	ART 336	N/A
ARTH 337	ART 337	N/A
ARTH 338	ART 338	N/A
ARTH 339	ART 339	N/A
ARTH 342	ART 342	N/A
ARTH 343	ART 343	N/A
ARTH 354	ART 354	N/A
ARTH 390	ART 390	N/A
ARTH 392	ART 392	N/A
ARTH 444	ART 444	N/A
ARTH 477	ART 477	N/A
ARTH 478	ART 478	N/A
ARTH 479	ART 479	N/A
ARTH 497	ART 497	N/A
ARTH 500	ART 500	N/A
		.,,.

ARTH 505	ART 505	N/A
ARTH 506	ART 506	N/A
ARTH 510	ART 510	N/A
ARTH 511	ART 511	N/A
ARTH 512	ART 512	N/A
ARTH 520	ART 520	N/A
ARTH 521	ART 521	N/A
ARTH 523	ART 523	N/A
ARTH 525	ART 525	N/A
ARTH 530	ART 530	N/A
ARTH 533	ART 533	N/A
ARTH 536	ART 536	N/A
ARTH 537	ART 537	N/A
ARTH 538	ART 538	N/A
ARTH 539	ART 539	N/A
ARTH 542	ART 542	N/A
ARTH 543	ART 543	N/A
ARTH 578	ART 578	N/A
ARTH 579	ART 579	N/A
ARTH 590	ART 590	N/A
ARTH 591	ART 591	N/A
ARTH 592	ART 592	N/A
ARTH 597	ART 597	N/A
ARTH 599	ART 599	N/A
ARTS-ART STUDIO	AU1 233	N/A
	ADT 1100	Heigue
ARTS 1145G	ART 110G	Unique
ARTS 1212	ART 157	Unique
ARTS 1240	ART 155	Common
ARTS 1250	ART 156	Common
ARTS 1310	ART 275	Common
ARTS 1320	ART 276	Common
ARTS 1410	ART 270	Common
ARTS 1520	ART 161	Common
ARTS 1520	ART 272	Common
ARTS 1610	ART 150	Common
ARTS 1610	ART 250	Common
ARTS 1630	ART 260	Common
ARTS 1710	ART 280	Common
ARTS 1711	ART 160	Unique
ARTS 1712	ART 163	Unique
ARTS 1713	ART 165	Unique
ARTS 1810	ART 285	Common
ARTS 2010	ART 267	Common
ARTS 2355	ART 286	Unique
ARTS 2410	OEPT 100	Common
ARTS 2430	OEPT 155	Common
ARTS 2431	ART 255	Unique
ARTS 2440	0EPT 120	Unique
ARTS 2610	ART 151	Common
ARTS 2611	ART 269	Unique
ARTS 2616	ART 252	Unique
ARTS 2630	ART 261	Common

ARTS 2635	ART 262	Common
ARTS 2671	ART 298	Unique
ARTS 2839	ART 265	Unique
ARTS 2993	ART 208	Unique
ARTS 2996	ART 294	Unique
ARTS 308	ART 308	N/A
ARTS 340	ART 340	N/A
ARTS 350	ART 350	N/A
ARTS 355	ART 355	N/A
ARTS 360	ART 360	N/A
ARTS 365	ART 365	N/A
ARTS 370	ART 370	N/A
ARTS 373	ART 373	N/A
ARTS 374	ART 374	N/A
ARTS 375	ART 375	N/A
ARTS 376	ART 376	N/A
ARTS 380	ART 380	N/A
ARTS 385	ART 385	N/A
ARTS 394	ART 394	N/A
ARTS 401	ART 401	N/A
ARTS 402	ART 402	N/A
ARTS 403	ART 403	N/A
ARTS 404	ART 404	N/A
ARTS 440	ART 440	N/A
ARTS 450	ART 450	N/A
ARTS 455	ART 455	N/A
ARTS 465	ART 465	N/A
ARTS 470	ART 470	N/A
ARTS 473	ART 473	N/A
ARTS 474	ART 474	N/A
ARTS 475	ART 475	N/A
ARTS 476	ART 476	N/A
ARTS 480	ART 480	N/A
ARTS 485	ART 485	N/A
ARTS 490	ART 490	N/A
ARTS 494	ART 494	N/A
ARTS 495	ART 495	N/A
ARTS 496	ART 496	N/A
ARTS 499	ART 499	N/A
ARTS 501	ART 501	N/A
ARTS 502	ART 502	N/A
ARTS 503	ART 503	N/A
ARTS 504	ART 504	N/A
ARTS 540	ART 540	N/A
ARTS 550	ART 550	N/A
ARTS 555	ART 555	N/A
ARTS 560	ART 560	N/A
ARTS 565	ART 565	N/A
ARTS 570	ART 570	N/A
ARTS 575	ART 575	N/A
ARTS 576	ART 576	N/A
ARTS 580	ART 580	N/A

ARTS 585	ART 585	N/A
ARTS 595	ART 595	N/A
ARTS 596	ART 596	N/A
ARTS 598	ART 598	N/A
ASTR-ASTRONOMY		
ASTR 1115G	ASTR 110G	Common
ASTR 1116	ASTR 199	Unique
ASTR 1120G	ASTR 105G	Unique
AXED-AGRICULTURAL EXTN EDUC		
AXED 1110	AXED 100	Unique
AXED 1120	AXED 240	Unique
AXED 1130	AXED 105	Unique
AXED 2110	AXED 205	Common
AXED 2120G	AXED 201G	Unique
AXED 2130	AXED 230	Unique
AXED 2140	AXED 232	Unique
AXED 2996	AXED 200	Unique
BCIS-BUSINESS COMPUTER SYSTEMS		
BCIS 1110	BCIS 110	Common
BCIS 1110	CS110	Common
BFIN-BUSINESS FINANCE		
BFIN 2110	FIN 206	Common
BFIN 2110	FIN 210	Common
BFIN 303V	FIN 303V	N/A
BFIN 311	FIN 311	N/A
BFIN 322	FIN 322	N/A
BFIN 323	FIN 323	N/A
BFIN 324	FIN 324	N/A
BFIN 325	FIN 325	N/A
BFIN 326	FIN 326	N/A
BFIN 327	FIN 327	N/A
BFIN 341	FIN 341	N/A
BFIN 355	FIN 355	N/A
BFIN 360	FIN 360	N/A
BFIN 385	FIN 385	N/A
BFIN 391	FIN 391	N/A
BFIN 392	FIN 392	N/A
BFIN 393	FIN 393	N/A
BFIN 406	FIN 406	N/A
BFIN 421	FIN 421	N/A
BFIN 435	FIN 435	N/A
BFIN 436	FIN 436	N/A
BFIN 445	FIN 445	N/A
BFIN 455	FIN 455	N/A
BFIN 466	FIN 466	N/A
BFIN 470	FIN 470	N/A
BFIN 475	FIN 475	N/A
BFIN 480	FIN 480	N/A
BFIN 490	FIN 490	N/A
BFIN 498	FIN 498	N/A
BFIN 500	FIN 500	N/A
BFIN 503	FIN 503	N/A

BFIN 511	FIN 511	N/A
BFIN 521	FIN 521	N/A
BFIN 535	FIN 535	N/A
BFIN 536	FIN 535	N/A N/A
BFIN 545	FIN 545	N/A
BFIN 555	FIN 555	N/A N/A
BFIN 566	FIN 566	N/A N/A
	FIN 575	
BFIN 575		N/A
BFIN 581	FIN 581	N/A
BFIN 590	FIN 590	N/A
BFIN 598	FIN 598	N/A
BIOL-BIOLOGY	DIOL 1010	Halana
BIOL 1120G	BIOL 101G	Unique
BIOL 1120L	BIOL 101GL	Unique
BIOL 1130G	BIOL 154	Common
BIOL 1190G	BIOL 110G	Unique
BIOL 1996	BIOL 150	Unique
BIOL 2110G	BIOL 211G	Unique
BIOL 2110L	BIOL 211GL	Unique
BIOL 2210	BIOL 225	Common
BIOL 2221	BIOL 254	Unique
BIOL 2225	BIOL 226	Common
BIOL 2310	BIOL 221	Common
BIOL 2310L	BIOL 221 L	Common
BIOL 2320	BIOL 219	Unique
BIOL 2505	BIOL 227	Common
BIOL 2511	BIOL 262	Common
BIOL 2512	BIOL 263	Unique
BIOL 2610G	BIOL 111G	Common
BIOL 2610L	BIOL 111GL	Common
BIOL 2996	BIOL 250	Unique
BLAW-BUSINESS LAW		
BLAW 2110	BLAW 230	Common
BLAW 2110	BMGT 231	Common
BLED-BILINGUAL EDUCATION		
BLED 1110	EDUC 103	Common
BLED 2110	EDUC 204	Common
BLED 344	BIL 344	N/A
BLED 483	BIL 483	N/A
BLED 489	BIL 489	N/A
BLED 505	BIL 505	N/A
BLED 520	BIL 520	N/A
BLED 522	BIL 522	N/A
BLED 545	BIL 545	N/A
BLED 550	BIL 550	N/A
BLED 560	BIL 560	N/A
BLED 570	BIL 570	N/A
BLED 583	BIL 583	N/A
BLED 587	BIL 587	N/A
BLED 616	BIL 616	N/A
BLED 617	BIL 617	N/A
BLED 633	BIL 633	N/A

BLED 670	BIL 670	N/A
BUSA-BUSINESS ADMINISTRATION		
BUSA 1110	BMGT 110	Common
BUSA 1110	BUSA 111	Common
CAST-CHILD ADVOCACY STUDIES		
CAST 1110	CAST 201	Unique
CAST 2110	CAST 202	Unique
CAST 2120	CAST 203	Unique
CEPY-COUNSELING & EDUC PSY		
CEPY 1120G	C EP 110G	Unique
CEPY 1150	C EP 199	Unique
CEPY 2110	C EP 210	Common
CEPY 2120	C EP 215	Unique
CEPY 2130	C EP 240	Unique
CEPY 2140	C EP 298	Unique
CEPY 2140H	C EP 298 H	Unique
CEPY-COUNSELING & EDUCATIONAL PSYCHOLO	OGY	
CEPY 300V	C EP 300	N/A
CEPY 320	C EP 320	N/A
CEPY 420	C EP 420	N/A
CEPY 451V	C EP 451V	N/A
CEPY 455	C EP 455	N/A
CEPY 461	C EP 461	N/A
CEPY 495	C EP 495	N/A
CEPY 495 H	C EP 495 H	N/A
CEPY 498	C EP 498	N/A
CEPY 499	C EP 499	N/A
CEPY 503	C EP 503	N/A
CEPY 505	C EP 505	N/A
CEPY 511	C EP 511	N/A
CEPY 512	C EP 512	N/A
CEPY 515	C EP 515	N/A
CEPY 517	C EP 517	N/A
CEPY 519	C EP 519	N/A
CEPY 520	C EP 520	N/A
CEPY 522	C EP 522	N/A
CEPY 524	C EP 524	N/A
CEPY 529	C EP 529	N/A
CEPY 532	C EP 532	N/A
CEPY 540	C EP 540	N/A
CEPY 542	C EP 542	N/A
CEPY 547	C EP 547	N/A
CEPY 549	C EP 549	N/A
CEPY 550	C EP 550	N/A
CEPY 551	C EP 551	N/A
CEPY 552	C EP 552	N/A
CEPY 554	C EP 554	N/A
CEPY 556	C EP 556	N/A
CEPY 558	C EP 558	N/A
CEPY 559	C EP 559	N/A
CEPY 562	C EP 562	N/A
CEPY 563	C EP 563	N/A

CEPY 566	C EP 566	N/A
CEPY 569	C EP 569	N/A
CEPY 572	C EP 572	N/A
CEPY 578	C EP 578	N/A
CEPY 579	C EP 579	N/A
CEPY 580	C EP 580	N/A
CEPY 598	C EP 598	N/A
CEPY 599	C EP 599	N/A
CEPY 607	C EP 607	N/A
CEPY 608	C EP 608	N/A
CEPY 612	C EP 612	N/A
CEPY 615	C EP 615	N/A
CEPY 616	C EP 616	N/A
CEPY 617	C EP 617	N/A
CEPY 618	C EP 618	N/A
CEPY 619	C EP 619	N/A
CEPY 622	C EP 622	
CEPY 624		N/A
CEPY 625	C EP 624 C EP 625	N/A
		N/A
CEPY 630	C EP 630	N/A
CEPY 634	C EP 632 C EP 634	N/A
CEPY 634 CEPY 636	C EP 634 C EP 636	N/A
		N/A
CEPY 637 CEPY 642	C EP 637 C EP 642	N/A
CEPY 647		N/A
	C EP 647	N/A
CEPY 648 CEPY 649	C EP 648	N/A
CEPY 649 CEPY 651	C EP 649 C EP 651	N/A
		N/A
CEPY 652 CEPY 658	C EP 652 C EP 658	N/A
CEPY 658	C EP 662	N/A
CEPY 670	C EP 670	N/A N/A
CEPY 670	C EP 671	N/A N/A
CEPY 672	C EP 672	N/A
CEPY 673 CEPY 675	C EP 673 C EP 675	N/A
CEPY 676		N/A
	C EP 676	N/A
CEPY 677	C EP 677	N/A
CEPY 678	C EP 678	N/A
CEPY 679	C EP 679	N/A
CEPY 680	C EP 680	N/A
CEPY 681	C EP 681	N/A
CEPY 682	C EP 682	N/A
CEPY 684	C EP 684	N/A
CEPY 685	C EP 685	N/A
CEPY 693	C EP 693	N/A
CEPY 698	C EP 698	N/A
CEPY 700	C EP 699	N/A
CEPY 700	C EP 700	N/A
CHEM 1111	CHEM 100	Unique
CHEM 1111	CHEM 100	Unique

0.1514.1.200		
CHEM 1120G	CHEM 110G	Common
CHEM 1121	CHEM 101	Unique
CHEM 1122	CHEM 102	Unique
CHEM 1123	CHEM 103	Unique
CHEM 1215G	CHEM 111G	Unique
CHEM 1216	CHEM 115	Common
CHEM 1225G	CHEM 112G	Unique
CHEM 1226	CHEM 116	Common
CHEM 2111	CHEM 242	Unique
CHEM 2115	CHEM 211	Common
CHEM 2120	CHEM 210	Common
CHEM 2226	CHEM 217	Unique
CHEM 2991	CHEM 241	Unique
CHEM 2996	CHEM 251	Unique
CHIN-CHINESE		
CHIN 1110	CHIN 111	Common
CHIN 1120	CHIN 112	Common
CHIN 2110	CHIN 211	Common
CHIN 2120	CHIN 212	Common
CHSS - COMM HEALTH/SOC SRVCS		
CHSS 1110	CHSS 101	Unique
CHSS 2110	CHSS 216	Unique
CHSS 2510	CHSS 299	Common
CHSS 2511	CHSS 295	Unique
CJUS-CRIMINAL JUSTICE	0.100 230	Crinque
CJUS 1110G	C J 101G	Common
CJUS 1120	C J 205	Common
CJUS 1996	C J 199	Unique
CJUS 2120	C J 250	Common
CJUS 2140	C J 221	Common
CJUS 2150	C J 230	Common
CJUS 2160	C J 293	Common
CJUS 2220	C J 210	Common
CJUS 300	C J 300	N/A
CJUS 301	C J 301	N/A
	CJ 302	N/A
CJUS 302 CJUS 303	CJ 303	N/A
CJUS 304	C J 304	N/A
CJUS 306	C J 306 C J 307	N/A
CJUS 307		N/A
CJUS 321	C J 321	N/A
CJUS 331	C J 331	N/A
CJUS 332	C J 332	N/A
CJUS 333	C J 333	N/A
CJUS 345	C J 345	N/A
CJUS 346	C J 346	N/A
CJUS 347	C J 347	N/A
CJUS 348	C J 348	N/A
CJUS 360	C J 360	N/A
CJUS 380	C J 380	N/A
CJUS 391	C J 391	N/A
CJUS 393	C J 393	N/A

0.1110.200	0.1200	NI/A
CJUS 399	C J 399	N/A
CJUS 405	C J 405	N/A
CJUS 410	C J 410 C J 412	N/A
CJUS 412		N/A
CJUS 414	C J 414	N/A
CJUS 416	C J 416	N/A
CJUS 417	C J 417	N/A
CJUS 424	C J 424	N/A
CJUS 425	C J 425	N/A
CJUS 427	C J 427 C J 428	N/A
CJUS 428 CJUS 429	C J 429	N/A
		N/A
CJUS 430	C J 430	N/A
CJUS 431	C J 431	N/A
CJUS 432	C J 432	N/A
CJUS 434	C J 434	N/A
CJUS 435	C J 435	N/A
CJUS 436	C J 436	N/A
CJUS 437	C J 437	N/A
CJUS 440V CJUS 449	C J 440V	N/A
	C J 449	N/A
CJUS 451	C J 451 C J 453	N/A
CJUS 453		N/A
CJUS 454	C J 454	N/A
CJUS 455	C J 455	N/A
CJUS 484	C J 484	N/A
CJUS 501	C J 501	N/A
CJUS 511	C J 511	N/A
CJUS 514 CJUS 515	C J 514 C J 515	N/A
CJUS 511	C J 521	N/A N/A
CJUS 524	C J 524	N/A
CJUS 525	C J 525	N/A
CJUS 527	C J 527	N/A
CJUS 529	C J 529	N/A
CJUS 531	C J 531	N/A
CJUS 532	C J 532	N/A
CJUS 535	C J 535	N/A
CJUS 537	C J 537	N/A
CJUS 541	C J 541	N/A
CJUS 545	C J 545	N/A
CJUS 554	C J 554	N/A
CJUS 555	C J 555	N/A
CJUS 581	C J 581	N/A
CJUS 591	C J 591	N/A
CJUS 592	C J 592	N/A
CJUS 593	C J 593	N/A
CJUS 599	C J 599	N/A
COMM-COMMUNICATION	0.000	1471
COMM 1115G	COMM 265G	Common
COMM 1130G	COMM 253G	Common
COMM 2110	COMM 285	Unique
55mm 2110	00 mm 200	omque

COMM 2111	COMM 250	Unique
COMM 2996	COMM 291	Unique
COMM 2997	COMM 290	Unique
CTFM-CLTHNG/TXTLS/FSHN MRCHDSG	CONTINI 230	onique
CTFM 1110	CTFM 178	Unique
CTFM 2110	CTFM 289	Unique
CTFM 2120	CTFM 270	Unique
CTFM 2130	CTFM 273	Unique
CTFM 2990	CTFM 202	Unique
DANC-DANCE	C11 W 202	onique
DANC 1110G	DANC 101G	Common
DANC 1130	DANC 123	Common
DANC 1131	DANC 125	Unique
DANC 1135	DANC 109	Unique
DANC 1140	DANC 129	Common
DANC 1150	DANC 126	Common
DANC 1155	DANC 102	
		Common
DANG 1999	DANG 122	Unique
DANC 1220	DANC 122	Unique
DANC 1235	DANC 118	Unique
DANC 2114	DANC 204	Unique
DANC 2130	DANC 223	Common
DANC 2130L	DANC 223 L	Unique
DANC 2140	DANC 229	N/A
DANC 2140L	DANC 229 L	Unique
DANC 2142	DANC 210	Unique
DANC 2142L	DANC 210 L	Unique
DANC 2150	DANC 226	Common
DANC 2150L	DANC 226 L	Unique
DANC 2155	DANC 207	Unique
DANC 2157	DANC 212	Unique
DANC 2161	DANC 227	Unique
DANC 2250	DANC 205	Unique
DANC 2251	DANC 206	Unique
DANC 2265	DANC 289	Unique
DANC 2270	DANC 280	Unique
DANC 2310	DANC 222	Unique
DANC 2311	DANC 225	Unique
DANC 2320	DANC 232	Unique
DANC 2321	DANC 235	Unique
DANC 3110	DANC 345	N/A
DANC 3114	DANC 304	N/A
DANC 3130	DANC 323	N/A
DANC 3130L	DANC 323 L	N/A
DANC 3140	DANC 329	N/A
DANC 3140L	DANC 329 L	N/A
DANC 3142	DANC 310	N/A
DANC 3142L	DANC 310 L	N/A
DANC 3145	DANC 339	N/A
DANC 3150	DANC 326	N/A
DANC 3150L	DANC 326 L	N/A
DANC 3155	DANC 307	N/A

2.112.01.57	200	
DANC 3157	DANC 312	N/A
DANC 3175	DANC 375	N/A
DANC 323 L	DANC 3130L	N/A
DANC 3250	DANC 305	N/A
DANC 3251	DANC 306	N/A
DANC 3310	DANC 322	N/A
DANC 3311	DANC 325	N/A
DANC 3320	DANC 332	N/A
DANC 3321	DANC 335	N/A
DANC 3510V	DANC 451V	N/A
DANC 4130	DANC 423	N/A
DANC 4130L	DANC 423 L	N/A
DANC 4150	DANC 426	N/A
DANC 4150L	DANC 426 L	N/A
DANC 4250	DANC 466	N/A
DANC 4265	DANC 489	N/A
DANC 4311	DANC 425	N/A
DANC 4320	DANC 432	N/A
DANC 4321	DANC 435	N/A
DANC 4610	DANC 447	N/A
DANC 4710	DANC 465	N/A
DANC 4990	DANC 411	N/A
DANC 4990	DANC 412	N/A
DANC 4990	DANC 413	N/A
DANC 4996	DANC 450	N/A
DANC 4997	DANC 499	N/A
DANC 5114	DANC 504	N/A
DANC 5130	DANC 523	N/A
DANC 5140	DANC 529	N/A
DANC 5142	DANC 510	N/A
DANC 5145	DANC 539	N/A
DANC 5150	DANC 526	N/A
DANC 5155	DANC 507	N/A
DANC 5157	DANC 512	N/A
DANC 5250	DANC 505	N/A
DANC 5251	DANC 506	N/A
DANC 5310	DANC 522	N/A
DANC 5311	DANC 522	N/A
DANC 5320	DANC 532	N/A
DANC 5321	DANC 535	N/A
DANC 5510	DANC 551	N/A
DANC 5550	DANC 566	N/A
DANC 5710	DANC 570	N/A
DANC 5900	DANC 599	N/A
DANC 5992	DANC 501	N/A
DANC 5996	DANC 550	N/A
DANC 5998	DANC 567	N/A
DANC 6998	DANC 670	N/A
ECED-EARLY CHILDHOOD EDUCATION		
ECED 1110	ECED 115	Common
ECED 1115	ECED 125	Common
ECED 1120	ECED 265	Common

ECED 1125	ECED 255	Common
ECED 1125	ECED 135	Common
ECED 2110	ECED 245	
ECED 2110	ECED 245 ECED 235	Common Common
ECED 2113	ECED 215	Common
ECED 2120	ECED 215 ECED 220	
ECED 2121 ECED 2130	ECED 225	Common
		Common
ECED 2131	ECED 230	Common
ECED 2140	ECED 275	Common
ECED 2141	ECED 276	Common
ECED 2215	ECED 270	Common
ECED 2280	ECED 280	Common
ECED 2281	ECED 281	Unique
ECON-ECONOMICS		
ECON 1110G	ECON 201G	Common
ECON 2110G	ECON 251G	Common
ECON 2110H	ECON 251GH	Common
ECON 2120G	ECON 252G	Common
ECON 2120H	ECON 252GH	Common
EDLT-EDUCATION		
EDLT 2110	EDLT 268	Unique
EDUC-EDUCATION		
EDUC 1110	EDUC 101	Unique
EDUC 1120	EDUC 250	Common
EDUC 1140	EDUC 150	Unique
EDUC 1150	EDUC 151	Unique
EDUC 1185	EDUC 281	Unique
EDUC 1995	EDUC 181	Unique
EDUC 1996	EDUC 195	Unique
EDUC 1998	EDUC 102	Unique
EDUC 2710	EDUC 219	Unique
EDUC 2998	EDUC 202	Unique
ELAD-EDUC LEADERSHIP & ADMIN		
ELAD 2210	ELA 255	Unique
ELAD 2340	ELA 215	Unique
ELAD 2996	ELA 298	Unique
ELAD 342	ELA 342	N/A
ELAD 350V	ELA 350V	N/A
ELAD 398	ELA 398	N/A
ELAD 411	ELA 411	N/A
ELAD 412	ELA 412	N/A
ELAD 413	ELA 413	N/A
ELAD 414	ELA 414	N/A
ELAD 440	ELA 440	N/A
ELAD 450	ELA 450	N/A
ELAD 455	ELA 455	N/A
ELAD 485	ELA 485	N/A
ELAD 499	ELA 499	N/A
ELAD 502	ELA 502	N/A
ELAD 511	ELA 511	N/A
ELAD 512	ELA 512	N/A
ELAD 513	ELA 513	N/A

E. 10 E. 1		
ELAD 514	ELA 514	N/A
ELAD 520	ELA 520	N/A
ELAD 530	ELA 530	N/A
ELAD 531	ELA 531	N/A
ELAD 540	ELA 540	N/A
ELAD 550	ELA 550	N/A
ELAD 555	ELA 555	N/A
ELAD 563	ELA 563	N/A
ELAD 564	ELA 564	N/A
ELAD 565	ELA 565	N/A
ELAD 566	ELA 566	N/A
ELAD 567	ELA 567	N/A
ELAD 568	ELA 568	N/A
ELAD 569	ELA 569	N/A
ELAD 570	ELA 570	N/A
ELAD 572	ELA 572	N/A
ELAD 575	ELA 575	N/A
ELAD 576	ELA 576	N/A
ELAD 578	ELA 578	N/A
ELAD 579	ELA 579	N/A
ELAD 580	ELA 580	N/A
ELAD 582	ELA 582	N/A
ELAD 585	ELA 585	N/A
ELAD 586	ELA 586	N/A
ELAD 589	ELA 589	N/A
ELAD 590	ELA 590	N/A
ELAD 595	ELA 595	N/A
ELAD 598	ELA 598	N/A
ELAD 600	ELA 600	N/A
ELAD 615	ELA 625	N/A
ELAD 620	ELA 620	N/A
ELAD 622	ELA 622	N/A
ELAD 623	ELA 623	N/A
ELAD 630	ELA 630	N/A
ELAD 635	ELA 635	N/A
ELAD 645	ELA 645	N/A
ELAD 650	ELA 650	N/A
ELAD 655	ELA 655	N/A
ELAD 670	ELA 670	N/A
ELAD 671	ELA 671	N/A
ELAD 676	ELA 676	N/A
ELAD 679	ELA 679	N/A
ELAD 682	ELA 682	N/A
ELAD 683	ELA 683	N/A
ELAD 685	ELA 685	N/A
ELAD 689	ELA 689	N/A
ELAD 693	ELA 693	N/A
ELAD 698	ELA 698	N/A
ELAD 700	ELA 700	N/A
ENGL-ENGLISH		· • · ·
ENGL 1105M	SPCD 1110	Unique
ENGL 1110G	ENGL 111G	Common

ENOV 1110U	FUOL 1110U	
ENGL 1110H	ENGL 111 M	Unique
ENGL 1110M	ENGL 111 M	Unique
ENGL 1120	ENGL 112	Common
ENGL 1410G	ENGL 115G	Common
ENGL 2130G	ENGL 311G	Common
ENGL 2210G	ENGL 203G	Common
ENGL 2210G	ENGL 218G	Common
ENGL 2215G	ENGL 318G	Unique
ENGL 2221G	ENGL 211G	Unique
ENGL 2280	ENGL 263	Unique
ENGL 2310G	ENGL 220G	Common
ENGL 2381	ENGL 232	Unique
ENGL 2382	ENGL 235	Unique
ENGL 2520G	ENGL 116G	Common
ENGL 2521	ENGL 243	Unique
ENGL 2610	ENGL 251	Common
ENGL 2620	ENGL 252	Common
ENGL 2630	ENGL 271	Common
ENGL 2640	ENGL 272	Common
ENGL 2650G	ENGL 244G	Common
ENGL 2996	ENGL 299	Unique
ENTR-ENTREPRENUERSHIP		
ENTR 1110	BMGT 275	Common
ENVS-ENVIRONMENTAL SCIENCE		
ENVS 1110G	ES110G	Common
ENVS 2111	E S 256	Unique
ENVS 2111L	E S 256 L	Unique
ENVS 300	ES 300	N/A
ENVS 301	ES 301	N/A
ENVS 312	ES312	N/A
ENVS 330	ES 330	N/A
ENVS 361	ES 361	N/A
ENVS 370	ES 370	N/A
ENVS 391	ES 391	N/A
ENVS 422	E S 422	N/A
ENVS 430	ES 430	N/A
ENVS 449	E S 449	N/A
ENVS 451	ES 451	N/A
ENVS 452	E S 452	N/A
ENVS 457	E S 457	N/A
ENVS 460	E S 460	N/A
ENVS 462	E S 462	N/A
ENVS 470	E S 470	N/A
ENVS 471	E S 471	N/A
ENVS 557	E S 557	N/A
ENVS 596	E S 596	N/A
ENVS 599	E S 599	N/A
ENVS 605	E S 605	N/A
ENVS 696	E S 696	N/A
ENVS 700	ES 700	N/A
EPWS-ETMLGY/PLNT PTHLGY/WD SCI		.,
EPWS 1110	EPWS 100	Unique
	0 100	q « v

EPWS 1110L	FDW0 100 I	Hainus
	EPWS 100 L	Unique
EPWS 2996	EPWS 200	Unique
FCSC-FAMILY & CONSUMER SCI	F00F 04F	Halaura
FCSC 2250	FCSE 245	Unique
FCSC 2330	FCSE 235	Unique
FCSC 345	FCSE 345	N/A
FCSC 348	FCSE 348	N/A
FCSC 445	FCSE 445	N/A
FCSC 492	FCSE 492	N/A
FCSC 545	FCSE 545	N/A
FCSC 546	FCSE 546	N/A
FCSC 547	FCSE 547	N/A
FCSC 548	FCSE 548	N/A
FCSC 590	FCSE 590	N/A
FCST-FAMILY AND CHILD STUDIES		
FCST 1130	FCS 181	Unique
FCST 2110	FCS 210	Unique
FCST 2120	FCS 211	Unique
FCST 2135	FCS 212	Unique
FCST 2140	FCS 213	Unique
FCST 300	FCS 300	N/A
FCST 301	FCS 301	N/A
FCST 380	FCS 380	N/A
FCST 383	FCS 383	N/A
FCST 424	FCS 424	N/A
FCST 449V	FCS 449V	N/A
FCST 456	FCS 456	N/A
FCST 492	FCS 492	N/A
FCST 510	FCS 510	N/A
FCST 511	FCS 511	N/A
FCST 512	FCS 512	N/A
FCST 524	FCS 524	N/A
FCST 525	FCS 525	N/A
FCST 548	FCS 548	N/A
FCST 562	FCS 562	N/A
FCST 572	FCS 572	N/A
FCST 582	FCS 582	N/A
FCST 583	FCS 583	N/A
FCST 584	FCS 584	N/A
FCST 585	FCS 585	N/A
FCST 586	FCS 586	N/A
FCST 587	FCS 587	N/A
FCST 589	FCS 589	N/A
FCST 590	FCS 590	N/A
FCST 592	FCS 592	N/A
FCST 598	FCS 598	N/A
FCST 599	FCS 599	N/A
FDMA-FILM & DIGITAL MEDIA		• • • •
FDMA 1110	CMT 170	Common
FDMA 1110	CMT 140	Common
FDMA 1210	CMT 190	Common
FDMA 1220	CMI 216	Common

74

FD144 0550	ONTRO	
FDMA 2550	CMT 285	Unique
FDMA 2570	CMT 292	Unique
FDMA 2710	CMI 250	Unique
FDMA 2715	CMT 260	Unique
FDMA 2720	CMI 290	Unique
FDMA 2725	CMI 270	Unique
FDMA 2730	CMT 227	Unique
FDMA 2735	CMT 290	Unique
FDMA 2740	CMT 291	Unique
FDMA 2745	CMI 233	Unique
FDMA 2750	CMT 229	Unique
FDMA 2755	CMI 220	Unique
FDMA 2760	CMT 265	Unique
FDMA 2765	CMT 225	Unique
FDMA 2770	CMT 200	Unique
FDMA 2775	CMT 252	Unique
FDMA 2780	CMT 251	Unique
FDMA 2785	CMT 228	Unique
FDMA 2993	CMT 276	Unique
FDMA 2994	CMT 295	Unique
FDMA 2995	CMT 226	Unique
FDMA 2996	CMT 255	Unique
FDMA 2997	CMT 298	Unique
FDMA 2998	CMT 221	Unique
FDMA 300	CMI 300	N/A
FDMA 301	CMI 301	N/A
FDMA 303	CMI 303	N/A
FDMA 305	CMI 305	N/A
FDMA 308	CMI 308	N/A
FDMA 309	CMI 309	N/A
FDMA 310	CMI 310	N/A
FDMA 311	CMI 311	N/A
FDMA 312	CMI 312	N/A
FDMA 314	CMI 314	N/A
FDMA 315	CMI 315	N/A
FDMA 316	CMI 316	N/A
FDMA 318	CMI 318	N/A
FDMA 320	CMI 320	N/A
FDMA 325	CMI 325	N/A
FDMA 328	CMI 328	N/A
FDMA 329	CMI 329	N/A
FDMA 330	CMI 330	N/A
FDMA 332	CMI 332	N/A
FDMA 341	CMI 341	N/A
FDMA 348	CMI 348	N/A
FDMA 350	CMI 350	N/A
FDMA 360	CMI 360	N/A
FDMA 362	CMI 362	N/A
FDMA 365	CMI 365	N/A
FDMA 377	CMI 377	N/A
FDMA 395	CMI 395	N/A
FDMA 396	CMI 396	N/A

FDMA 397	CMI 397	N/A
FDMA 398	CMI 398	N/A
FDMA 400	CMI 400	N/A
FDMA 401	CMI 401	N/A
FDMA 410	CMI 410	N/A
FDMA 412	CMI 412	N/A
FDMA 420	CMI 420	N/A
FDMA 421	CMI 421	N/A
FDMA 425	CMI 425	N/A
FDMA 433	CMI 433	N/A
FDMA 450	CMI 450	N/A
FDMA 470	CMI 470	N/A
FDMA 477	CMI 477	N/A
FDMA 480	CMI 480	N/A
FDMA 490	CMI 490	N/A
FDMA 491	CMI 491	N/A
FDMA 492	CMI 492	N/A
FDMA 493	CMI 493	N/A
FDMA 494	CMI 494	N/A
FDMA 495	CMI 495	N/A
FDMA 496	CMI 496	N/A
FDMA 497	CMI 497	N/A
FREN-FRENCH		
FREN 1110	FREN 111	Common
FREN 1120	FREN 112	Common
FREN 2110	FREN 211	Common
FREN 2120	FREN 212	Common
FSTE-FOOD SCIENCE & TECHNOLOGY		
FSTE 1110G	FSTE 164G	Unique
FSTE 1120	FSTE 175	Unique
FSTE 2110G	FSTE 263G	Unique
FSTE 2120	FSTE 275	Unique
FSTE 2130G	FSTE 210G	Unique
FSTE 2996	FSTE 200	Unique
FWCE-FISH,WILDLF,CONSERV ECOL		
FWCE 1110G	FWCE 110G	Unique
FWCE 1120	FWCE 109	Unique
FWCE 2110	FWCE 255	Unique
FYEX-FIRST YEAR EXPERIENCE		
FYEX 1110	COLL 101	Common
FYEX 1112	UNIV 150	Unique
FYEX 1115	UNIV 115	Unique
FYEX 1116	COLL 103	Unique
FYEX 1117	UNIV 114	Unique
FYEX 1130	COLL 111	Unique
FYEX 1131	UNIV 110	Unique
FYEX 1132	UNIV 112	Unique
FYEX 1133	COLL 108	Unique
FYEX 1134	UNIV 113	Unique
FYEX 1140	COLL 120	Unique
FYEX 1141	UNIV 118	Unique
FYEX 1150	UNIV 117	Unique

FYEX 1160	UNIV 101	Unique
FYEX 1170	UNIV 161	Unique
FYEX 1995	UNIV 116	Unique
FYEX 1996	COLL 155	Unique
FYEX 2111	COLL 201	Unique
FYEX 2994	COLL 185	Unique
GENE-GENETICS		
GENE 1110	GENE 110	Unique
GEOG-GEOGRAPHY		
GEOG 1110G	GEOG 111G	Common
GEOG 1120G	GEOG 112G	Common
GEOG 1130G	GEOG 120G	Common
GEOG 2130	GEOG 281	Unique
GEOG 2610	GEOG 295	Unique
GEOG 2996	GEOG 291	Unique
GEOL-GEOLOGY		
GEOL 1110G	GEOL 111G	Common
GEOL 2120	GEOG 259	Common
GEOL 2130	GEOG 257	Common
GEOL 2996	GEOL 220	Unique
GNDR-WOMEN'S STUDIES		·
GNDR 2110G	W S 201G	Common
GNDR 2120G	HON 218	Unique
GNDR 2120G	W S 202G	Unique
GNDR 316	W S 316	N/A
GNDR 350	W S 350	N/A
GNDR 359	W S 359	N/A
GNDR 360	W S 360	N/A
GNDR 380V	W S 380V	N/A
GNDR 381V	W S 381V	N/A
GNDR 382	W S 382	N/A
GNDR 401	W S 401	N/A
GNDR 402	W S 402	N/A
GNDR 403	W S 403	N/A
GNDR 405	W S 405	N/A
GNDR 406	W S 406	N/A
GNDR 407	W S 407	N/A
GNDR 408	W S 408	N/A
GNDR 411	W S 411	N/A
GNDR 412	W S 412	N/A
GNDR 450	W S 450	N/A
GNDR 451	W S 451	N/A
GNDR 453	W S 453	N/A
GNDR 454	W S 454	N/A
GNDR 455 GNDR 461	W S 455 W S 461	N/A N/A
GNDR 465	W S 465	N/A
GNDR 471	W S 468	N/A
GNDR 471	W S 471	N/A
GNDR 474	W S 474	N/A
GNDR 482	W S 482	N/A
GNDR 484	W S 484	N/A

GNDR 501	W S 501	N/A
GNDR 502	W S 502	N/A
GNDR 503	W S 503	N/A
GNDR 505	W S 505	N/A
GNDR 506	W S 506	N/A
GNDR 507	W S 507	N/A
GNDR 508	W S 508	N/A
GNDR 511	W S 511	N/A
GNDR 512	W S 512	N/A
GNDR 533	W S 533	N/A
GNDR 550	W S 550	N/A
GNDR 554	W S 554	N/A
GNDR 555	W S 555	N/A
GNDR 561	W S 561	N/A
GNDR 565	W S 565	N/A
GNDR 567	W S 567	N/A
GNDR 571	W S 571	N/A
GNDR 574	W S 574	N/A
GNDR 582	W S 582	N/A
GNDR 584	W S 584	N/A
GRMN-GERMAN		,
GRMN 1110	GER 111	Common
GRMN 1120	GER 112	Common
GRMN 2110	GER 211	Common
GRMN 2120	GER 212	Common
GRMN 305	GER 305	N/A
GRMN 313	GER 313	N/A
GRMN 325	GER 325	N/A
GRMN 330	GER 330	N/A
GRMN 333V	GER 333V	N/A
GRMN 340	GER 340	N/A
GRMN 341	GER 341	N/A
GRMN 343	GER 343	N/A
GRMN 350	GER 350	N/A
GRMN 399	GER 399	N/A
GRMN 410	GER 410	N/A
GRMN 413	GER 413	N/A
GRMN 425 GRMN 449	GER 524 GER 449	N/A
		N/A
GRMN 451	GER 451	N/A
GRMN 453	GER 453	N/A
GRMN 471	GER 471	N/A
HIST-HISTORY	LUOT 1100	H-:
HIST 11105G	HIST 110G	Unique
HIST 1110G	HIST 201G	Common
HIST 1120G	HIST 202G	Common
HIST 11400	HIST 111G	Common
HIST 1140G	HIST 112G	Common
HIST 1150G	HIST 101G	Common
HIST 1160G	HIST 102G	Common
HIST 2110 HIST 2245G	HIST 261	Common
	HIST 221G	Unique

HIST 2246G	HIST 222G	Unique
HIST 2250G	HIST 211G	Unique Unique
HIST 2251G	HIST 212G	
		Unique
HIST 2996 HLED-HEALTH EDUCATION	HIST 269	Unique
HLED 1154	P E 134	Common
HMSV-HUMAN SERVICES	PE 134	Common
HMSV 2110	S WK 253	Common
HNRS-HONORS	3 WK 255	Common
HNRS 1110	HON 115	Unique
HNRS 2110G	HON 210	Unique
HNRS 2111	HON 214	Unique
HNRS 2114G	HON 208G	Unique
HNRS 2115G	HON 216G	Unique
HNRS 2116G	HON 219G	Unique
HNRS 2117G	HON 220G	Unique
HNRS 2120G	HON 222G	Unique
HNRS 2140G	HON 227G	Unique
HNRS 2141G	HON 230G	Unique
HNRS 2150G	HON 228G	Unique
HNRS 2160G	HON 229G	Unique
HNRS 2161G	HON 235G	Unique
HNRS 2170G	HON 232G	Unique
HNRS 2171G	HON 234G	Unique
HNRS 2172G	HON 237G	Unique
HNRS 2173G	HON 239G	Unique
HNRS 2174G	HON 249G	Unique
HNRS 2175G	HON 265G	Unique
HNRS 2178G	HON 270G	Unique
HNRS 2180G	HON 248G	Unique
HNRS 2185G	HON 211	Unique
HNRS 2190G	HON 242G	Unique
HNRS 2996	HON 221	Unique
HNRS 304V	HON 304V	N/A
HNRS 306V	HON 306V	N/A
HNRS 308V	HON 308V	N/A
HNRS 313	HON 313	N/A
HNRS 314	HON 314	N/A
HNRS 317V	HON 317V	N/A
HNRS 318V	HON 318V	N/A
HNRS 321V	HON 321V	N/A
HNRS 324V	HON 324V	N/A
HNRS 326V	HON 326V	N/A
HNRS 328V	HON 328V	N/A
HNRS 335V	HON 335V	N/A
HNRS 340V	HON 340V	N/A
HNRS 341V	HON 341V	N/A
HNRS 347V	HON 347V	N/A
HNRS 348V	HON 348V	N/A
HNRS 349V	HON 349V	N/A
HNRS 351V	HON 351V	N/A
HNRS 353V	HON 353V	N/A

HNRS 362V	HON 362V	N/A
HNRS 365V	HON 365V	N/A
HNRS 366V	HON 366V	N/A
HNRS 370V	HON 370V	N/A
HNRS 371V	HON 371 V	N/A
HNRS 374V	HON 374V	N/A
HNRS 375V	HON 375V	N/A
HNRS 378V	HON 378V	N/A
HNRS 379V	HON 379V	N/A
HNRS 380V	HON 380V	N/A
HNRS 381V	HON 381V	N/A
HNRS 384V	HON 384V	N/A
HNRS 387V	HON 387V	N/A
HNRS 388V	HON 388V	N/A
HNRS 390V	HON 390V	N/A
HNRS 394V	HON 394V	N/A
HNRS 400	HON 400	N/A
HNRS 410	HON 410	N/A
HNRS 411V	HON 411	N/A
HNRS 412	HON 412	N/A
HNRS 413	HON 413	N/A
HNRS 420	HON 420	N/A
HNRS 421	HON 421	N/A
HNRS 422	HON 422	N/A
HNRS 425V	HON 425V	N/A
HNRS 450V	HON 450V	N/A
HNRS 521	HON 521	N/A
HORT-HORTICULTURE		
HORT 1115G	HORT 100G	Unique
HORT 2110	HORT 210	Unique
HORT 2120	HORT 211	Unique
HORT 2130	HORT 240	Unique
HORT 2160	HORT 250	Unique
HORT 2990	HORT 241	Unique
HORT 2996	HORT 200	Unique
HRTM-HOTEL/RESTRNT/TOURISM MGT		
HRTM 1110	HRTM 111	Unique
HRTM 1120	HRTM 201	Unique
HRTM 1130	HRTM 221	Unique
HRTM 2110	HRTM 231	Unique
HRTM 2120	HRTM 263	Unique
HRTM 2130	HRTM 235	Unique
HRTM 2996	HRTM 200	Unique
JAPN-JAPANESE		
JAPN 1110	JPNS 111	Common
JAPN 1120	JPNS 112	Common
JAPN 2110	JPNS 211	Common
JAPN 2120	JPNS 212	Common
LIBR-LIBRARY SCIENCE	UD 101	
LIBR 1110	LIB 101	Unique
LIBR 1111	LIB 111	Unique
LIBR 311V	LIB 311V	N/A

LING-LINGUISTICS

LING-LINGOISTICS		
LING 2110G	LING 200G	Common
MATH-MATHEMATICS		
MATH 1130G	MATH 210G	Common
MATH 1134	MATH 111	Unique
MATH 1215	MATH 120	Common
MATH 1217	MATH 101	Unique
MATH 1220G	MATH 121G	Common
MATH 1221	MATH 102	Unique
MATH 1250G	MATH 190G	Common
MATH 1350G	A ST 251G	Common
MATH 1350G	STAT 251G	Common
MATH 1430G	MATH 142G	Common
MATH 1435	MATH 235	Common
MATH 1440	MATH 236	Common
MATH 1511G	MATH 191G	Unique
MATH 1521G	MATH 192G	Unique
MATH 1521H	MATH 192GH	Unique
MATH 1531	MATH 279	Unique
MATH 1996	MATH 107	Unique
MATH 2134G	MATH 112G	Unique
MATH 2234	MATH 215	Unique
MATH 2350G	STAT 271G	Common
MATH 2415	MATH 280	Unique
MATH 2530G	MATH 291G	Common
MATH 2992	MATH 200	Unique
MGMT-MANAGEMENT		
MGMT 2110	MGT 201	Common
MGMT 309	MGT 309	N/A
MGMT 310V	MGT 310V	N/A
MGMT 315V	MGT 315V	N/A
MGMT 332	MGT 332	N/A
MGMT 333	MGT 333	N/A
MGMT 335V	MGT 335V	N/A
MGMT 344	MGT 344	N/A
MGMT 345V	MGT 345V	N/A
MGMT 347	MGT 347	N/A
MGMT 351	MGT 351	N/A
MGMT 360V	MGT 360V	N/A
MGMT 361	MGT 361	N/A
MGMT 375V	MGT 375V	N/A
MGMT 388V	MGT 388V	N/A
MGMT 391	MGT 391	N/A
MGMT 448	MGT 448	N/A
MGMT 449	MGT 449	N/A
MGMT 451	MGT 451	N/A
MGMT 453	MGT 453	N/A
MGMT 454	MGT 454	N/A
MGMT 458	MGT 458	N/A
MGMT 460	MGT 460	N/A
MGMT 461	MGT 461	N/A
MGMT 465	MGT 465	N/A

MGMT 466	MGT 466	N/A
MGMT 470	MGT 470	N/A
MGMT 490	MGT 490	N/A
MGMT 491	MGT 491	N/A
MGMT 498	MGT 498	N/A
MGMT 502	MGT 502	N/A
MGMT 503	MGT 503	N/A
MGMT 512	MGT 512	N/A
MGMT 527	MGT 527	N/A
MGMT 548	MGT 548	N/A
MGMT 590	MGT 590	N/A
MGMT 591	MGT 591	N/A
MGMT 598	MGT 598	N/A
MGMT 600	MGT 600	N/A
MGMT 601	MGT 601	N/A
MGMT 640	MGT 640	N/A
MGMT 645	MGT 645	N/A
MGMT 650	MGT 650	N/A
MGMT 655	MGT 655	N/A
MGMT 660	MGT 660	N/A
MGMT 661	MGT 661	N/A
MGMT 670	MGT 670	N/A
MGMT 675	MGT 675	N/A
MGMT 685	MGT 685	N/A
MGMT 690	MGT 690	N/A
MGMT 698	MGT 698	N/A
MGMT 700	MGT 700	N/A
MKTG-MARKETING		•
MKTG 2110	BMGT 210	Common
	BMGT 210 MKTG 203	Common
MKTG 2110	BMGT 210 MKTG 203	Common Common
MKTG 2110 MUSC-MUSIC	MKTG 203	Common
MKTG 2110 MUSC-MUSIC MUSC 1110G	MKTG 203 MUS 201G	Common
MKTG 2110 MUSC-MUSIC MUSC 1110G MUSC 1130G	MKTG 203 MUS 201G MUS 101G	Common Common
MKTG 2110 MUSC-MUSIC MUSC 1110G MUSC 1130G MUSC 1210	MKTG 203 MUS 201G MUS 101G MUS 102	Common Common Common
MKTG 2110 MUSC-MUSIC MUSC 1110G MUSC 1130G MUSC 1210 MUSC 1310	MKTG 203 MUS 201G MUS 101G MUS 102 MUS 121	Common Common Common Common
MKTG 2110 MUSC-MUSIC MUSC 1110G MUSC 1130G MUSC 1210 MUSC 1310 MUSC 1410	MKTG 203 MUS 201G MUS 101G MUS 102 MUS 121 MUS 250	Common Common Common Common Common Common
MKTG 2110 MUSC-MUSIC MUSC 1110G MUSC 1130G MUSC 1210 MUSC 1310 MUSC 1410 MUSC 1440	MKTG 203 MUS 201G MUS 101G MUS 102 MUS 121 MUS 250 MUS 141	Common Common Common Common Common Unique
MKTG 2110 MUSC-MUSIC MUSC 1110G MUSC 1130G MUSC 1210 MUSC 1310 MUSC 1410 MUSC 1440 MUSC 1450	MKTG 203 MUS 201G MUS 101G MUS 102 MUS 121 MUS 250 MUS 141 MUS 103	Common Common Common Common Common Unique Unique
MKTG 2110 MUSC-MUSIC MUSC 1110G MUSC 1130G MUSC 1210 MUSC 1310 MUSC 1410 MUSC 1440 MUSC 1450 MUSC 1451	MKTG 203 MUS 201G MUS 101G MUS 102 MUS 121 MUS 250 MUS 141 MUS 103 MUS 104	Common Common Common Common Common Unique Unique Unique
MKTG 2110 MUSC-MUSIC MUSC 1110G MUSC 1130G MUSC 1210 MUSC 1310 MUSC 1410 MUSC 1440 MUSC 1450 MUSC 1451 MUSC 1460	MKTG 203 MUS 201G MUS 101G MUS 102 MUS 121 MUS 250 MUS 141 MUS 103 MUS 104 MUS 105	Common Common Common Common Common Unique Unique Unique Unique Unique
MKTG 2110 MUSC-MUSIC MUSC 1110G MUSC 1130G MUSC 1210 MUSC 1310 MUSC 1410 MUSC 1440 MUSC 1450 MUSC 1451 MUSC 1460 MUSC 1461	MKTG 203 MUS 201G MUS 101G MUS 102 MUS 121 MUS 250 MUS 141 MUS 103 MUS 104 MUS 105 MUS 106	Common Common Common Common Common Unique Unique Unique Unique Unique Unique Unique
MKTG 2110 MUSC-MUSIC MUSC 1110G MUSC 1130G MUSC 1210 MUSC 1310 MUSC 1410 MUSC 1440 MUSC 1450 MUSC 1451 MUSC 1460 MUSC 1470	MKTG 203 MUS 201G MUS 101G MUS 102 MUS 121 MUS 250 MUS 141 MUS 103 MUS 104 MUS 105 MUS 106 MUS 145	Common Common Common Common Common Unique Unique Unique Unique Unique Unique Unique Unique Unique
MKTG 2110 MUSC-MUSIC MUSC 1110G MUSC 1210 MUSC 1210 MUSC 1310 MUSC 1410 MUSC 1440 MUSC 1450 MUSC 1451 MUSC 1460 MUSC 1470 MUSC 1471	MKTG 203 MUS 201G MUS 101G MUS 102 MUS 121 MUS 250 MUS 141 MUS 103 MUS 104 MUS 105 MUS 106 MUS 145 MUS 146	Common Common Common Common Common Unique
MKTG 2110 MUSC-MUSIC MUSC 1110G MUSC 1130G MUSC 1210 MUSC 1310 MUSC 1410 MUSC 1440 MUSC 1450 MUSC 1451 MUSC 1460 MUSC 1470 MUSC 1472	MKTG 203 MUS 201G MUS 101G MUS 102 MUS 121 MUS 250 MUS 141 MUS 103 MUS 104 MUS 105 MUS 106 MUS 145 MUS 146 MUS 147	Common Common Common Common Common Unique
MKTG 2110 MUSC-MUSIC MUSC 1110G MUSC 1130G MUSC 1210 MUSC 1310 MUSC 1410 MUSC 1440 MUSC 1450 MUSC 1451 MUSC 1460 MUSC 1461 MUSC 1470 MUSC 1472 MUSC 1992	MKTG 203 MUS 201G MUS 101G MUS 102 MUS 121 MUS 250 MUS 141 MUS 103 MUS 104 MUS 105 MUS 106 MUS 145 MUS 146 MUS 147 MUS 130	Common Common Common Common Common Unique Common
MKTG 2110 MUSC-MUSIC MUSC 1110G MUSC 1130G MUSC 1210 MUSC 1310 MUSC 1410 MUSC 1440 MUSC 1450 MUSC 1451 MUSC 1460 MUSC 1461 MUSC 1470 MUSC 1472 MUSC 1992 MUSC 2110	MKTG 203 MUS 201G MUS 101G MUS 102 MUS 121 MUS 250 MUS 141 MUS 103 MUS 104 MUS 105 MUS 106 MUS 145 MUS 146 MUS 147 MUS 130 MUS 164	Common Common Common Common Common Unique Unique Unique Unique Unique Unique Unique Unique Unique Common Common
MKTG 2110 MUSC-MUSIC MUSC 1110G MUSC 1210 MUSC 1210 MUSC 1310 MUSC 1410 MUSC 1440 MUSC 1450 MUSC 1451 MUSC 1460 MUSC 1461 MUSC 1470 MUSC 1472 MUSC 1992 MUSC 2110	MKTG 203 MUS 201G MUS 101G MUS 102 MUS 121 MUS 250 MUS 141 MUS 103 MUS 104 MUS 105 MUS 106 MUS 145 MUS 146 MUS 147 MUS 130 MUS 164 MUS 171	Common Common Common Common Common Unique Unique Unique Unique Unique Unique Unique Unique Common Common Common Common
MKTG 2110 MUSC-MUSIC MUSC 1110G MUSC 1210 MUSC 1210 MUSC 1310 MUSC 1410 MUSC 1440 MUSC 1450 MUSC 1451 MUSC 1460 MUSC 1461 MUSC 1470 MUSC 1472 MUSC 1472 MUSC 2110 MUSC 2120	MKTG 203 MUS 201G MUS 101G MUS 102 MUS 121 MUS 250 MUS 141 MUS 103 MUS 104 MUS 105 MUS 106 MUS 145 MUS 146 MUS 147 MUS 130 MUS 164 MUS 171 MUS 151	Common Common Common Common Common Unique Unique Unique Unique Unique Unique Unique Unique Common Common Common Common Common Common
MKTG 2110 MUSC-MUSIC MUSC 1110G MUSC 1130G MUSC 1210 MUSC 1310 MUSC 1410 MUSC 1440 MUSC 1450 MUSC 1451 MUSC 1460 MUSC 1461 MUSC 1470 MUSC 1472 MUSC 1992 MUSC 2110 MUSC 2120 MUSC 2120	MKTG 203 MUS 201G MUS 101G MUS 102 MUS 121 MUS 250 MUS 141 MUS 103 MUS 104 MUS 105 MUS 106 MUS 145 MUS 146 MUS 147 MUS 130 MUS 164 MUS 171 MUS 151 MUS 160	Common Common Common Common Common Unique Unique Unique Unique Unique Unique Unique Common Common Common Common Common Common Common Common Common
MKTG 2110 MUSC-MUSIC MUSC 1110G MUSC 1210 MUSC 1210 MUSC 1310 MUSC 1410 MUSC 1440 MUSC 1450 MUSC 1451 MUSC 1460 MUSC 1461 MUSC 1470 MUSC 1472 MUSC 1992 MUSC 2110 MUSC 2120 MUSC 2120 MUSC 2120	MKTG 203 MUS 201G MUS 101G MUS 102 MUS 121 MUS 250 MUS 141 MUS 103 MUS 104 MUS 105 MUS 106 MUS 145 MUS 146 MUS 147 MUS 130 MUS 164 MUS 171 MUS 160 MUS 161	Common Common Common Common Common Unique Unique Unique Unique Unique Unique Unique Common
MKTG 2110 MUSC-MUSIC MUSC 1110G MUSC 1130G MUSC 1210 MUSC 1310 MUSC 1410 MUSC 1440 MUSC 1450 MUSC 1451 MUSC 1460 MUSC 1461 MUSC 1471 MUSC 1472 MUSC 1992 MUSC 2110 MUSC 2120 MUSC 2120	MKTG 203 MUS 201G MUS 101G MUS 102 MUS 121 MUS 250 MUS 141 MUS 103 MUS 104 MUS 105 MUS 106 MUS 145 MUS 146 MUS 147 MUS 130 MUS 164 MUS 171 MUS 151 MUS 160	Common Common Common Common Common Unique Unique Unique Unique Unique Unique Unique Common Common Common Common Common Common Common Common Common

MUSC 2120	MUS 172	Common
MUSC 2120	MUS 180	Common
MUSC 2120	MUS 181	Common
MUSC 2130	MUS 163	Common
MUSC 2132	MUS 174	Unique
MUSC 2151	MUS 202	Unique
MUSC 2210	MUS 262	Common
MUSC 2220	MUS 263	Common
MUSC 2240	MUS 207	Unique
MUSC 2310	MUS 273	Common
MUSC 2451	MUS 203	Unique
MUSC 2452	MUS 204	Unique
MUSC 2460	MUS 205	Unique
MUSC 2461	MUS 206	Unique
MUSC 2470	MUS 261	Unique
MUSC 2510	MUS 230	Unique
MUSC 2993	MUS 251	Unique
MUSC 2996	MUS 260	Unique
MUSC 301	MUS 301	N/A
MUSC 302	MUS 302	N/A
MUSC 303	MUS 303	N/A
MUSC 315	MUSC 315	N/A
MUSC 316	MUS 316	N/A
MUSC 317	MUS 317	N/A
MUSC 318	MUS 318	N/A
MUSC 319	MUS 319	N/A
MUSC 320	MUS 320	N/A
MUSC 321	MUS 321	N/A
MUSC 322	MUS 322	N/A
MUSC 323	MUS 323	N/A
MUSC 324	MUS 324	N/A
MUSC 325	MUS 325	N/A
MUSC 326	MUS 326	N/A
MUSC 327	MUS 327	N/A
MUSC 330	MUS 330	N/A
MUSC 339	MUS 339	N/A
MUSC 340	MUS 340	N/A
MUSC 341	MUS 341	N/A
MUSC 346	MUS 346	N/A
MUSC 349	MUS 349	N/A
MUSC 350	MUS 350	N/A
MUSC 351	MUS 351	N/A
MUSC 360	MUS 360	N/A
MUSC 361	MUS 361	N/A
MUSC 362	MUS 362	N/A
MUSC 363	MUS 363	N/A
MUSC 365	MUS 365	N/A
MUSC 368	MUS 368	N/A
MUSC 370	MUS 370	N/A
MUSC 372	MUS 372	N/A
MUSC 374	MUS 374	N/A
MUSC 380	MUS 380	N/A

MUSC 381	MUS 381	N/A
MUSC 386	MUSC 386	N/A
MUSC 390	MUS 390	N/A
MUSC 391	MUS 391	N/A
MUSC 392	MUS 392	N/A
MUSC 413	MUS 413	N/A
MUSC 415	MUS 415	N/A
MUSC 417 MUSC 420	MUS 417	N/A
	MUS 420	N/A
MUSC 421	MUS 421	N/A
MUSC 422	MUS 422	N/A
MUSC 424	MUS 424	N/A
MUSC 429	MUS 429	N/A
MUSC 430	MUS 430	N/A
MUSC 440	MUS 440	N/A
MUSC 441	MUS 441	N/A
MUSC 450	MUS 450	N/A
MUSC 455	MUS 455	N/A
MUSC 470	MUS 470	N/A
MUSC 471	MUS 471	N/A
MUSC 475	MUS 475	N/A
MUSC 477	MUS 477	N/A
MUSC 486	MUS 486	N/A
MUSC 498	MUS 498	N/A
MUSC 511	MUS 511	N/A
MUSC 513	MUS 513	N/A
MUSC 518	MUS 518	N/A
MUSC 519	MUS 519	N/A
MUSC 521	MUS 521	N/A
MUSC 522	MUS 522	N/A
MUSC 523	MUS 523	N/A
MUSC 527	MUS 527	N/A
MUSC 528	MUS 528	N/A
MUSC 529	MUS 529	N/A
MUSC 530	MUS 530	N/A
MUSC 531	MUS 531	N/A
MUSC 535	MUS 535	N/A
MUSC 540	MUS 540	N/A
MUSC 574	MUS 574	N/A
MUSC 575	MUS 575	N/A
MUSC 576	MUS 576	N/A
MUSC 577	MUS 577	N/A
MUSC 578	MUS 578	N/A
MUSC 579	MUS 579	N/A
MUSC 580	MUS 580	N/A
MUSC 582	MUS 582	N/A
MUSC 586	MUS 586	N/A
MUSC 598	MUS 598	N/A
MUSC 599	MUS 599	N/A
NMNC-NEW MEXICO NURSING EDUCATION COM		
NMNC 3110	NURS 293	Common
NMNC 3120	NURS 362	Common

NIANO 0105	NUIDO 004	0
NMNC 3135	NURS 294	Common
NMNC 3210	NURS 377	Common
NMNC 3220	NURS 378	Common
NMNC 3230	NURS 379	Common
NMNC 3235	NURS 380	Common
NMNC 4310	NURS 395	Common
NMNC 4320	NURS 396	Common
NMNC 4335	NURS 398	Common
NMNC 4410	NURS 466	Common
NMNC 4435	NURS 467	Common
NMNC 4445	NURS 468	Common
NMNC 4510	NURS 486	Common
NMNC 4520	NURS 487	Common
NMNC 4535	NURS 488	Common
NMNC 4545	NURS 489	Common
NUTR-NUTRITION		
NUTR 2110	HNDS 251	Common
NUTR 2120	HNDS 201	Unique
NUTR 3110	HNDS 350	N/A
NUTR 3120	HNDS 360	N/A
NUTR 3750	HNDS 440	N/A
NUTR 3996	HNDS 450	N/A
NUTR 4110	HNDS 448	N/A
NUTR 4210	HNDS 403	N/A
NUTR 4220	HNDS 430	N/A
NUTR 4230	HNDS 446	N/A
NUTR 4230L	HNDS 446 L	N/A
NUTR 4233	HNDS 420	N/A
NUTR 4235	HNDS 405	N/A
NUTR 4240	HNDS 449	N/A
NUTR 4240L	HNDS 449 L	N/A
NUTR 4550	HNDS 455	N/A
NUTR 4560	HNDS 401	N/A
NUTR 4565	HNDS 407	N/A
NUTR 4911	HNDS 492	N/A
NUTR 5110	HNDS 548	N/A
NUTR 5150	HNDS 500	N/A
NUTR 5210	HNDS 551	N/A
NUTR 5220	HNDS 530	N/A
NUTR 5230	HNDS 546	N/A
NUTR 5230	HNDS 546	N/A
NUTR 5233	HNDS 520	N/A
NUTR 5240	HNDS 549	N/A
NUTR 5610	HNDS 560	N/A
NUTR 5620	HNDS 562	N/A
NUTR 5630	HNDS 563	N/A
NUTR 5640	HNDS 564	N/A
NUTR 5650	HNDS 565	N/A
NUTR 5660	HNDS 566	N/A
NUTR 5680	HNDS 568	N/A
NUTR 5991	HNDS 598	N/A
NUTR 5996	HNDS 590	N/A

OATS-OFFICE ADMIN TECH SYSTEMS

0.1.10 0.1.102712		
OATS 101	BOT 101	N/A
OATS 102	BOT 102	N/A
OATS 105	BOT 105	N/A
OATS 106	BOT 106	N/A
OATS 109	BOT 109	N/A
OATS 110	BOT 110	N/A
OATS 120	BOT 120	N/A
OATS 121	BOT 121	N/A
OATS 135	BOT 135	N/A
OATS 140	BOT 140	N/A
OATS 150	BOT 150	N/A
OATS 169	BOT 169	N/A
OATS 170	BOT 170	N/A
OATS 171	BOT 171	N/A
OATS 191	BOT 191	N/A
OATS 202	BOT 202	N/A
OATS 203	BOT 203	N/A
OATS 205	BOT 205	N/A
OATS 206	BOT 206	N/A
OATS 207	BOT 207	N/A
OATS 208	BOT 208	N/A
OATS 209	BOT 209	N/A
OATS 211	BOT 211	N/A
OATS 213	BOT 213	N/A
OATS 214	BOT 214	N/A
OATS 215	BOT 215	N/A
OATS 217	BOT 217	N/A
OATS 218	BOT 218	N/A
OATS 220	BOT 220	N/A
OATS 221	BOT 221	N/A
OATS 222	BOT 222	N/A
OATS 223	BOT 223	N/A
OATS 228	BOT 228	N/A
OATS 233	BOT 233	N/A
OATS 239	BOT 239	N/A
OATS 240	BOT 240	N/A
OATS 241	BOT 241	N/A
OATS 244	BOT 244	N/A
OATS 250	BOT 250	N/A
OATS 255	BOT 255	N/A
OATS 260	BOT 260	N/A
OATS 270	BOT 270	N/A
PHED-PHYSICAL EDUCATION	501 270	N/A
PHED 1110	P E 128	Common
		Common
PHED 1230	PE147	Common
PHED 1230	P E 148	Common
PHED 1230	PE150	Common
PHED 1290	PE112	Common
PHED 1290	PE113	Common
PHED 1290	PE114	Common
PHED 1290	PE115	Common

PHED 1290	P E 117	Common
PHED 1290	P E 166	Common
PHED 1310	P E 130	Common
PHED 1320	P E 131	Common
PHED 1410	P E 199	Common
PHED 1430	P E 109	Common
PHED 1510	P E 102	Common
PHED 1510	P E 103	Common
PHED 1510	P E 127	Common
PHED 1620	P E 205	Common
PHED 1630	P E 104	Common
PHED 1670	P E 129	Common
PHED 1710	P E 159	Common
PHED 1710	P E 154	Common
PHED 1830	P E 173	Common
PHED 1910	P E 263	Common
PHED 2996	P E 270	Common
PHIL-PHILOSOPHY		
PHIL 1115G	PHIL 101G	Common
PHIL 1120G	PHIL 211G	Common
PHIL 1140G	PHIL 136G	Unique
PHIL 1145G	PHIL 100G	Unique
PHIL 1155G	PHIL 124G	Unique
PHIL 2110G	PHIL 223G	Common
PHIL 2230G	PHIL 201G	Common
PHLS-PUBLIC HEALTH SCIENCES		
PHLS 1110G	PHLS 150G	Common
PHLS 1111	PHLS 100	Unique
PHLS 2110	PHLS 275	Common
PHLS 2120	PHLS 295	Common
PHYS-PHYSICS		
PHYS 1111	PHYS 150	Unique
PHYS 1112	PHYS 210	Unique
PHYS 1115G	PHYS 110G	Common
PHYS 1125G	PHYS 120G	Common
PHYS 1230G	PHYS 211G	Common
PHYS 1230L	PHYS 211GL	Common
PHYS 1240G	PHYS 212G	Common
PHYS 1240L	PHYS 212GL	Common
PHYS 1310G	PHYS 215G	Common
PHYS 1310L	PHYS 215GL	Common
PHYS 1311	PHYS 205	Common
PHYS 1320G	PHYS 216G	Common
PHYS 1320L	PHYS 216GL	Common
PHYS 1321	PHYS 206	Common
PHYS 2110	PHYS 213	Unique
PHYS 2110L	PHYS 213 L	Unique
PHYS 2111	PHYS 203	Unique
PHYS 2120	PHYS 217	Unique
PHYS 2120L	PHYS 217 L	Unique
PHYS 2121	PHYS 218	Unique
PHYS 2140	PHYS 214	Unique

PHYS 2140L	PHYS 214 L	Unique
PHYS 2141	PHYS 204	Unique
PHYS 2230G	PHYS 221G	Unique
PHYS 2230L	PHYS 221GL	Unique
PHYS 2231	PHYS 223	Common
PHYS 2240G	PHYS 222G	Unique
PHYS 2240L	PHYS 222GL	Unique
PHYS 2241	PHYS 224	Common
PHYS 2996	PHYS 290	Unique
PHYS 2997	PHYS 280	Unique
POLS-POLITICAL SCIENCE		
POLS 1110G	GOVT 110G	Common
POLS 1111	GOVT 101	Unique
POLS 1120G	GOVT 100G	Common
POLS 1130G	GOVT 150G	Common
POLS 2120G	GOVT 160G	Common
POLS 2996	GOVT 201	Unique
POLS 300	GOVT 300	N/A
POLS 308	GOVT 308	N/A
POLS 313	GOVT 313	N/A
POLS 314	GOVT 314	N/A
POLS 315	GOVT 315	N/A
POLS 320	GOVT 320	N/A
POLS 321	GOVT 321	N/A
POLS 324	GOVT 324	N/A
POLS 325	GOVT 325	N/A
POLS 330	GOVT 330	N/A
POLS 331	GOVT 331	N/A
POLS 335	GOVT 335	N/A
POLS 343	GOVT 343	N/A
POLS 344	GOVT 344	N/A
POLS 345	GOVT 345	N/A
POLS 348	GOVT 348	N/A
POLS 350	GOVT 350	N/A
POLS 353	GOVT 353	N/A
POLS 354	GOVT 354	N/A
POLS 360	GOVT 360	N/A
POLS 361	GOVT 361	N/A
POLS 362	GOVT 366	N/A
POLS 366	GOVT 366	N/A
POLS 367	GOVT 367	N/A
POLS 370	GOVT 370	N/A
POLS 371	GOVT 371	N/A
POLS 372	GOVT 372	N/A
POLS 373	GOVT 373	N/A
POLS 375	GOVT 375	N/A
POLS 378	GOVT 378	N/A
POLS 379	GOVT 379	N/A
POLS 380V	GOVT 380V	N/A
POLS 382	GOVT 382	N/A
POLS 383	GOVT 383	N/A
POLS 384	GOVT 384	N/A

POLS 385	GOVT 385	N/A
POLS 386	GOVT 386	N/A
POLS 387	GOVT 387	N/A
POLS 390	GOVT 390	N/A
POLS 391	GOVT 391	N/A
POLS 392	GOVT 392	N/A
POLS 394	GOVT 394	N/A
POLS 395	GOVT 395	N/A
POLS 396	GOVT 396	N/A
POLS 399	GOVT 399	N/A
POLS 405	GOVT 405	N/A
POLS 406	GOVT 406	N/A
POLS 407	GOVT 407	N/A
POLS 410	GOVT 410	N/A
POLS 411	GOVT 411	N/A
POLS 412	GOVT 412	N/A
POLS 415	GOVT 415	N/A
POLS 468	GOVT 468	N/A
POLS 469	GOVT 469	N/A
POLS 474	GOVT 474	N/A
POLS 493		N/A
	GOVT F02	
POLS 502 POLS 503	GOVT 502 GOVT 503	N/A
		N/A
POLS 505	GOVT 505	N/A
POLS 510	GOVT 510	N/A
POLS 517	GOVT 517	N/A
POLS 519	GOVT 519	N/A
POLS 522	GOVT 522	N/A
POLS 523	GOVT 523	N/A
POLS 527	GOVT 527	N/A
POLS 530	GOVT 530	N/A
POLS 535	GOVT 535	N/A
POLS 536	GOVT 536	N/A
POLS 537	GOVT 537	N/A
POLS 540	GOVT 540	N/A
POLS 541	GOVT 541	N/A
POLS 542	GOVT 542	N/A
POLS 543	GOVT 543	N/A
POLS 544	GOVT 544	N/A
POLS 547	GOVT 547	N/A
POLS 548	GOVT 548	N/A
POLS 549	GOVT 549	N/A
POLS 550	GOVT 550	N/A
POLS 560	GOVT 560	N/A
POLS 561	GOVT 561	N/A
POLS 563	GOVT 563	N/A
POLS 564	GOVT 564	N/A
POLS 569	GOVT 569	N/A
POLS 570	GOVT 570	N/A
POLS 574	GOVT 574	N/A
POLS 578	GOVT 578	N/A
POLS 579	GOVT 579	N/A

DOL C 500	COVT FOO	NI/A
POLS 580	GOVT 580	N/A N/A
POLS 587 POLS 590	GOVT 500	N/A
POLS 590	GOVT 590 GOVT 591	N/A N/A
POLS 593	GOVT 593	N/A
POLS 593		N/A N/A
POLS 598	GOVT 508	
POLS 598	GOVT 598	N/A
PORT-PORTUGUESE	GOVT 599	N/A
PORT-PORTOGOESE PORT 1110	PORT 213	Common
PORT 1120	PORT 214	Common
PSYC-PSYCHOLOGY	PORT 214	Common
PSYC 1110G	PSY 201G	Common
PSYC 11106 PSYC 1120		
	PSY 211	Unique
PSYC 2221	PSY 266	Unique
PSYC 2230	PSY 290	Common
PSYC 2311	PSY 274	Unique
PSYC 301	PSY 301	N/A
PSYC 302	PSY 302	N/A
PSYC 310	PSY 310	N/A
PSYC 311	PSY 311	N/A
PSYC 315	PSY 315	N/A
PSYC 317	PSY 317	N/A
PSYC 320	PSY 320	N/A
PSYC 321	PSY 321	N/A
PSYC 324	PSY 324	N/A
PSYC 325	PSY 325	N/A
PSYC 330	PSY 330	N/A
PSYC 340	PSY 340	N/A
PSYC 342	PSY 342	N/A
PSYC 350	PSY 350	N/A
PSYC 351	PSY 351	N/A
PSYC 359	PSY 359	N/A
PSYC 370	PSY 370	N/A
PSYC 375	PSY 375	N/A
PSYC 376	PSY 376	N/A
PSYC 380	PSY 380	N/A
PSYC 383	PSY 383	N/A
PSYC 385	PSY 385	N/A
PSYC 400	PSY 400	N/A
PSYC 401	PSY 401	N/A
PSYC 402	PSY 402	N/A
PSYC 417V	PSY 417V	N/A
PSYC 430	PSY 430	N/A
PSYC 440	PSY 440	N/A
PSYC 442	PSY 442	N/A
PSYC 445	PSY 445	N/A
PSYC 450	PSY 450	N/A
PSYC 470	PSY 470	N/A
PSYC 507	PSY 507	N/A
PSYC 508	PSY 508	N/A
PSYC 509	PSY 509	N/A

PSYC 510	PSY 510	N/A
PSYC 510	PSY 520	N/A
PSYC 522	PSY 522	N/A
PSYC 523	PSY 523	N/A
PSYC 524	PSY 524	N/A
PSYC 525	PSY 525	N/A
PSYC 527	PSY 527	N/A
PSYC 527	PSY 529	N/A
PSYC 530	PSY 530	N/A
PSYC 531	PSY 531	N/A
PSYC 540	PSY 540	N/A
PSYC 543	PSY 543	N/A
PSYC 547	PSY 547	N/A
PSYC 548	PSY 548	N/A
PSYC 550	PSY 550	N/A
PSYC 570	PSY 570	N/A
PSYC 570	PSY 590	N/A
PSYC 590 PSYC 598	PSY 598	N/A N/A
PSYC 598 PSYC 599	PSY 598	
	PSY 600	N/A
PSYC 600		N/A
PSYC 698	PSY 698	N/A
PSYC 700 RGSC-RANGE SCIENCE	PSY 700	N/A
	P000 150	Halaura
RGSC 1110 RGSC 2110	RGSC 150 RGSC 294	Unique
RGSC 2996		Common
SIGN-SIGN LANGUAGE	RGSC 250	Unique
SIGN 1110	C D 374	Common
SIGN 1110 SIGN 1120	C D 375	Common
SIGN 2110	C D 476	Common
SIGN 574	C S 574	N/A
SOCI-SOCIOLOGY	03314	IV/A
SOCI 1110G	SOC 101G	Common
SOCI 2220	SOC 273	Common
SOCI 2230	SOC 263	Common
SOCI 2230	SOC 269	Common
SOCI 2240	SOC 258	Common
SOCI 2261	SOC 262	Unique
SOCI 2310G	SOC 201G	Common
SOCI 23100 SOCI 330V	SOC 330V	N/A
SOCI 336V	SOC 336V	N/A
SOCI 350 SOCI 350	SOC 350	N/A
SOCI 351	SOC 351	N/A
SOCI 352	SOC 352	N/A
SOCI 352 SOCI 353	SOC 353	N/A
SOCI 357	SOC 357	N/A
SOCI 357	SOC 359	N/A
SOCI 360V	SOC 369V	N/A
SOCI 361V	SOC 361V	N/A
SOCI 361V	SOC 362	N/A
SOCI 365	SOC 365	N/A
	000 000	13//3
SOCI 371	SOC 371	N/A

SOCI 374V	SOC 374	N/A
SOCI 375	SOC 375	N/A
SOCI 376V	SOC 376V	N/A
SOCI 390	SOC 390	N/A
SOCI 391	SOC 391	N/A
SOCI 392	SOC 392	N/A
SOCI 393	SOC 393	N/A
SOCI 394V	SOC 394V	N/A
SOCI 401	SOC 401	N/A
SOCI 409	SOC 409	N/A
SOCI 430	SOC 430	N/A
SOCI 448	SOC 448	N/A
SOCI 449	SOC 449	N/A
SOCI 458V	SOC 458V	N/A
SOCI 460	SOC 460	N/A
SOCI 464	SOC 464	N/A
SOCI 465V	SOC 465V	N/A
SOCI 470	SOC 470	N/A
SOCI 473	SOC 473	N/A
SOCI 474	SOC 474	N/A
SOCI 477	SOC 477	N/A
SOCI 480	SOC 480	N/A
SOCI 481	SOC 481	N/A
SOCI 482	SOC 482	N/A
SOCI 486	SOC 486	N/A
SOCI 489	SOC 489	N/A
SOCI 491	SOC 491	N/A
SOCI 496	SOC 496	N/A
SOCI 501	SOC 501	N/A
SOCI 509	SOC 509	N/A
SOCI 530	SOC 530	N/A
SOCI 548	SOC 548	N/A
SOCI 549	SOC 549	N/A
SOCI 551	SOC 551	N/A
SOCI 552	SOC 552	N/A
SOCI 553	SOC 553	N/A
SOCI 558	SOC 558	N/A
SOCI 559	SOC 559	N/A
SOCI 560	SOC 560	N/A
SOCI 561	SOC 561	N/A
SOCI 564	SOC 564	N/A
SOCI 565	SOC 565	N/A
SOCI 569	SOC 569	N/A
SOCI 570	SOC 570	N/A
SOCI 571	SOC 571	N/A
SOCI 572	SOC 572	N/A
SOCI 574	SOC 574	N/A
SOCI 575	SOC 575	N/A
SOCI 577	SOC 577	N/A
SOCI 578	SOC 578	N/A
SOCI 579	SOC 579	N/A
SOCI 581	SOC 581	N/A

SOCI 582	SOC 582	N/A
SOCI 582	SOC 582	N/A
SOCI 586	SOC 586	N/A
SOCI 587	SOC 580	N/A
SOCI 587	SOC 589	N/A
SOCI 599 SOCI 596	SOC 589	N/A N/A
SOCI 599 SOIL-SOIL	SOC 599	N/A
	0011 050	0
SOIL 2110	SOIL 252	Common
SOIL 2110L	SOIL 252 L	Common
SOIL 2996	SOIL 200	Unique
SOWK-SOCIAL WORK	0.1414,001.0	0
SOWK 2110G	S WK 221G	Common
SOWK 2111	S WK 251	Unique
SOWK 300	S WK 300	N/A
SOWK 301	S WK 301	N/A
SOWK 309	S WK 309	N/A
SOWK 311	S WK 311	N/A
SOWK 312	S WK 312	N/A
SOWK 313	S WK 313	N/A
SOWK 315	S WK 315	N/A
SOWK 316	S WK 316	N/A
SOWK 331V	S WK 331V	N/A
SOWK 401	S WK 401	N/A
SOWK 403	S WK 403	N/A
SOWK 405	S WK 405	N/A
SOWK 412	S WK 412	N/A
SOWK 415	S WK 415	N/A
SOWK 416	S WK 416	N/A
SOWK 417	S WK 417	N/A
SOWK 418	S WK 418	N/A
SOWK 419	S WK 419	N/A
SOWK 443	S WK 443	N/A
SOWK 447	S WK 447	N/A
SOWK 449	S WK 449	N/A
SOWK 490	S WK 490	N/A
SOWK 497	S WK 497	N/A
SPAN-SPANISH		
SPAN 1110	SPAN 111	Common
SPAN 1120	SPAN 112	Common
SPAN 1210	SPAN 113	Common
SPAN 1220	SPAN 213	Common
SPAN 2110	SPAN 211	Common
SPAN 2120	SPAN 212	Common
SPAN 2210	SPAN 214	Common
SPED-SPECIAL EDUCATION		
SPED 2120	SPED 210	Unique
SPED 2130	SPED 202	Unique
SPED 2996	SPED 201	Unique
SPHS-SPEECH & HEARING SCIENCE		
SPHS 2110	C D 221	Common
SPHS 301	C D 301	N/A

94

SPMD 2310	SP M 200	Unique
SPMD 3010	SP M 310	
SPMD 3050	SP M 375	N/A
SPMD 3090 SPMD 3090	SP M 373	N/A
SPMD 3093	SP M 373	N/A
SPMD 3110	PE P 323	N/A
	PE P 363	N/A
SPMD 3120 SPMD 3130		N/A
	PE P 392	N/A
SPMD 3140	PE P 394	N/A
SPMD 3150	PE P 393	N/A
SPMD 3160	PE P 315	N/A
SPMD 3210	SP M 371	N/A
SPMD 3210L	SP M 371 L	N/A
SPMD 3250	SP M 324	N/A
SPMD 3310	PE P 319	N/A
SPMD 3350	SP M 412	N/A
SPMD 3410	SP M 308	N/A
SPMD 3450	SP M 305	N/A
SPMD 3450L	SP M 305 L	N/A
SPMD 3550	SP M 304	N/A
SPMD 3610	SP M 303	N/A
SPMD 3650	SP M 341	N/A
SPMD 3710	SP M 342	N/A
SPMD 4010	SP M 410	N/A
SPMD 4015	SP M 415	N/A
SPMD 4020	SP M 420	N/A
SPMD 4025	SP M 411	N/A
SPMD 4030	SP M 425	N/A
SPMD 4090	SP M 422	N/A
SPMD 4093	SP M 423	N/A
SPMD 4095	SP M 424	N/A
SPMD 4098	SP M 498	N/A
SPMD 4110	PE P 455	N/A
SPMD 4130	PE P 466	N/A
SPMD 4210	SP M 451	N/A
SPMD 4250	SP M 460	N/A
SPMD 4250L	SP M 460 L	N/A
SPMD 4350	SP M 330	N/A
SPMD 4410	SP M 456	N/A
SPMD 4450	SP M 307	N/A
SPMD 4510	SP M 309	N/A
SPMD 4550	SP M 223	N/A
SPMD 4610	PE P 465	N/A
SPMD 4997	SP M 499	N/A
SPMD 4998	SP M 445	N/A
SPMD 5010	SP M 510	N/A
SPMD 5015	SP M 513	N/A
SPMD 5020	SP M 514	N/A
SPMD 5025	SP M 511	N/A
SPMD 5030	SP M 515	N/A
SPMD 5310	SP M 512	N/A
SPMD 5350	SP M 560	N/A

SPMD 5410 SP M 505 N/A SPMD 5450 SP M 504 N/A SPMD 5510 SP M 504 N/A SPMD 5550 SP M 505 N/A SPMD 6310 PL P 624 N/A SPMD 6350 SP M 508 N/A SPMD 6410 SP M 608 N/A SPMD 6410 SP M 608 N/A SPMD 6510 SP M 600 N/A SPMD 6710 SP M 507 N/A SPMD 6710 SP M 500 N/A SPMD 6700 SP M 500 N/A SPMD 7000 SP M 700 N/A SPMD 7000 SP M 700 N/A THEA 1210 THIR 1016 Common THEA 1221 THIR 1016 Common THEA 1222 THIR 102 Unique THEA 1223 THIR 103 Unique THEA 1310 THIR 142 Common THEA 2310 THIR 141 Unique THEA 2310 THIR 141 Unique THEA 2310 THIR 250	ODMD 5410	OD 14 500	N/A
SPM 0510 SP M 545 N/A SPM 0520 SP M 545 N/A SPM 0530 SP M 561 N/A SPM 0530 SP M 561 N/A SPM 0640 SP M 608 N/A SPM 0650 SP M 660 N/A SPM 06710 SP M 660 N/A SPM 06770 SP M 600 N/A SPM 06780 SP M 600 N/A SPM 07000 SP M 700 N/A SPM 07000 SP M 700 N/A SPM 07000 THR 1016 Common THEA-THEATH THEA-THEATH Common THEA 11106 THR 1016 Common THEA 12100 THR 1016 Common THEA 1210 THR 1010 Unique THEA 1310 THR 142 Common THEA 1310 THR 142 Common THEA 222 THR 142 Unique THEA 2310 THR 142 Unique THEA 2310 THR 142 Unique THEA 2320 THR 180			
SPMD 6550 SP M 545 N/A SPMD 6310 PE P 624 N/A SPMD 6310 SP M 561 N/A SPMD 6410 SP M 568 N/A SPMD 6450 SP M 665 N/A SPMD 6510 SP M 660 N/A SPMD 6770 SP M 597 N/A SPMD 6750 SP M 600 N/A SPMD 6700 NP 000 N/A SPMD 7000 SP M 700 N/A SPMD 7000 NP 000 N/A SPMD 7000 NP 000 N/A SPMD 7000 Omnon N/A THEAL 1210 THTR 1010 Common THEAL 2121 THTR 102 Unique THEAL 1222 THTR 120 Unique THEAL 1230 THTR 124 Omnon THEAL 2121 THTR 121 Omnon THEAL 2221 THTR 121 Omnon THEAL 2310 THTR 121 Omnon THEAL 2310 THTR 220 Omnon THEAL 2310 THTR 250 <			
SPMD 0310 PE P 224 N/A SPMD 0350 SP M 551 N/A SPMD 0410 SP M 608 N/A SPMD 0450 SP M 606 N/A SPMD 0510 SP M 600 N/A SPMD 0710 SP M 500 N/A SPMD 0750 SP M 500 N/A THEA 110 Unique Unique THEA 1210 THTR 141 Common <			
SPMD 6350 SPM 508 N/A SPMD 6410 SPM 668 N/A SPMD 6450 SPM 656 N/A SPMD 6510 SP M 650 N/A SPMD 6770 SP M 597 N/A SPMD 6750 SP M 600 N/A SPMD 6750 SP M 600 N/A SPMD 7000 SP M 700 N/A THEA 1210 THE 1016 Common THEA 1210 THI 105 Common THEA 1221 THI 110 Unique THEA 1222 THIR 100 Unique THEA 1223 THIR 130 Unique THEA 1310 THIR 142 Common THEA 1310 THIR 142 Unique THEA 2230 THIR 149 Unique THEA 2310 THIR 141 Unique THEA 2310 THIR 141 Unique THEA 2345 THIR 29 Unique THEA 230 THIR 200 Unique THEA 230 THIR 300 N/A THEA 303 THIR 301			
SPMD 6410 SP M 656 N/A SPMD 6450 SP M 665 N/A SPMD 6510 SP M 660 N/A SPMD 6710 SP M 597 N/A SPMD 6750 SP M 500 N/A SPMD 7000 SP M 500 N/A SPMD 7000 SP M 500 N/A THEA 1110G Common THEA 1110G THTR 1016 Common THEA 1221 THTR 105 Common THEA 1221 THTR 100 Unique THEA 1222 THTR 130 Unique THEA 1223 THTR 142 Common THEA 1220 THTR 142 Common THEA 1230 THTR 142 Unique THEA 1231 THTR 144 Common THEA 2310 THTR 141 Common THEA 2310 THTR 141 Common THEA 2310 THTR 249 Unique THEA 2320 THTR 200 Unique			
SPMD 6450 SP M 656 N/A SPMD 6510 SP M 690 N/A SPMD 6710 SP M 690 N/A SPMD 690 PE P 501 N/A SPMD 9996 PE P 501 N/A SPMD 7000 SP M 700 N/A THEA 1106 Common THEA 1107 Common THEA 12106 THTR 1016 Common THEA 1221 THTR 110 Unique THEA 1222 THTR 120 Unique THEA 1223 THTR 130 Unique THEA 1310. THTR 142 Common THEA 1310. THTR 142 Unique THEA 2221 THTR 149 Unique THEA 2221 THTR 141 Common THEA 2310 THTR 141 Unique THEA 2221 THTR 141 Unique THEA 2340 THTR 249 Unique THEA 2340 THTR 290 Unique THEA 2993 THTR 200 Unique THEA 300 THTR 303 <t< td=""><td></td><td></td><td></td></t<>			
SPM D6510 SP M 597 N/A SPM D670 SP M 597 N/A SPM D670 SP M 600 N/A SPM D700 SP M 600 N/A SPMD 700 SP M 700 N/A THE D100 N/A THEA 1110G THTR 101G Common THEA 1211 THTR 101 Unique THEA 1221 THTR 100 Unique THEA 1310 THTR 130 Unique THEA 1310 THTR 142 Common THEA 1310 THTR 142 Unique THEA 1310 THTR 142 Unique THEA 2310 THTR 141 Common THEA 2221 THTR 210 Unique THEA 22310 THTR 249 Unique THEA 2330 THTR 249 Unique THEA 2231 THTR 200 Unique THEA 229 Unique THEA 2300 THTR 300 N/A <th< td=""><td></td><td></td><td></td></th<>			
SPMD 6750 SP M 600 N/A SPMD 6750 SP M 600 N/A SPMD 6996 PE P 501 N/A SPMD 7000 SP M 700 N/A THEA THEATE THEA 1110G THER 101G Common THEA 1210G THER 101G Common THEA 1221 THER 101G Unique THEA 1222 THER 100 Unique THEA 1223 THER 130 Unique THEA 12310 THER 142 Common THEA 1310L THER 142 Unique THEA 2310 THER 140 Unique THEA 2310 THER 141 Unique THEA 2310 THER 141 Unique THEA 2310 THER 250 Unique THEA 2310 THER 250 Unique THEA 2320 THER 250 Unique THEA 2415 THER 250 Unique THEA 2993 THER 200 Unique THEA 303 THER 300 N/A THEA 304 THER 304			
SPMD 6790 SP M 600 N/A SPMD 6996 PE P 501 N/A SPMD 7000 SP M 700 N/A THEA 11100 M 7 THEA 1120G THR 1016 Common THEA 1221 THR 110 Unique THEA 1222 THR 120 Unique THEA 1223 THR 130 Unique THEA 1224 THR 130 Unique THEA 1225 THR 141 Common THEA 1221 THR 142 Unique THEA 1230 THR 142 Unique THEA 1310 THR 142 Unique THEA 2211 THR 141 Common THEA 2212 THR 141 Unique THEA 2310 THR 141 Unique THEA 22310 THR 141 Unique THEA 2421 THR 250 Unique THEA 2421 THR 250 Unique THEA 2296 THR 200 N/A THEA 303 THR 300 N/A THEA 304 THR 304			
SPMD 6996 PE P 501 N/A SPMD 7000 SP M 700 N/A SPMD 7000 SP M 700 N/A SPMD 7000 SP M 700 N/A THEA 1110G THTR 101G Common THEA 12106 THTR 101 Unique THEA 1222 THTR 120 Unique THEA 1223 THTR 142 Common THEA 1310 THTR 142 Common THEA 1310 THTR 142 Unique THEA 2310 THTR 149 Unique THEA 2211 THTR 141 Common THEA 2310 THTR 141 Common THEA 2310 THTR 141 Common THEA 2310 THTR 141 Unique THEA 2310 THTR 141 Unique THEA 2310 THTR 141 Unique THEA 2321 THTR 249 Unique THEA 2933 THTR 209 Unique THEA 2993 THTR 300 N/A THEA 303 THTR 303 N/A THEA 303 <	SPMD 6710	SP M 597	N/A
SPMD 7000 SP M 700 N/A THEA THERTE THEA 1110G Common THEA 1210G THTR 105 Common THEA 122Q THTR 110 Unique THEA 1221 THTR 110 Unique THEA 1223 THTR 130 Unique THEA 1233 THTR 130 Unique THEA 1310 THTR 142 Common THEA 1415 THTR 149 Unique THEA 221 THTR 149 Unique THEA 2310 THTR 141 L Unique THEA 2330 THTR 141 L Unique THEA 2421 THTR 250 Unique THEA 2424 THTR 220 Unique THEA 2421 THTR 200 Unique THEA 2933 THTR 300 N/A THEA 300 THTR 300 N/A THEA 301 THTR 300 N/A THEA 302 THTR 305 N/A THEA 303 THTR 301 N/A THEA 310 THTR 311 N/A THEA 312 <th< td=""><td>SPMD 6750</td><td>SP M 600</td><td>N/A</td></th<>	SPMD 6750	SP M 600	N/A
THEA THEATRE THEA 1100 THTR 101G Common THEA 1210 THTR 105 Common THEA 1221 THTR 106 Unique THEA 1222 THTR 100 Unique THEA 1223 THTR 120 Unique THEA 1310 THTR 142 Common THEA 1310. THTR 142 Unique THEA 2415 THTR 149 Unique THEA 2210 THTR 140 Unique THEA 2310 THTR 141 Unique THEA 2310 THTR 250 Unique THEA 2340 THTR 250 Unique THEA 2341 THTR 200 Unique THEA 2993 THTR 200 Unique THEA 2993 THTR 300 N/A THEA 300 THTR 303 N/A THEA 303 THTR 303 N/A THEA 304 THTR 305 N/A	SPMD 6996	PE P 501	N/A
THEA 1110G THR 101G Common THEA 1210G THR 105 Common THEA 1221 THTR 110 Unique THEA 1222 THTR 120 Unique THEA 1223 THR 130 Unique THEA 1310 THTR 142 Common THEA 1310L THTR 142 Unique THEA 1415 THTR 149 Unique THEA 2210 THTR 141 Common THEA 2310L THTR 141 Common THEA 2310L THTR 141 Unique THEA 2310L THTR 249 Unique THEA 2421 THTR 249 Unique THEA 2422 THTR 249 Unique THEA 2421 THTR 200 Unique THEA 2422 Unique Unique THEA 2023 THTR 200 N/A THEA 2030 THTR 300 N/A THEA 300 THTR 300 N/A THEA 301 THTR 305 N/A THEA 302 THTR 305 N/A THEA 311 <	SPMD 7000	SP M 700	N/A
THEA 1210G THTR 105 Common THEA 1221 THTR 110 Unique THEA 1222 THTR 120 Unique THEA 1223 THTR 130 Unique THEA 1310 THTR 142 Common THEA 1310L THTR 142 L Unique THEA 2415 THTR 149 Unique THEA 2211 THTR 141 L Unique THEA 2310 THTR 141 L Unique THEA 2310 THTR 141 L Unique THEA 2340 THTR 1250 Unique THEA 2415 THTR 249 Unique THEA 2416 THTR 249 Unique THEA 2993 THTR 220 Unique THEA 2996 THTR 200 Unique THEA 303 THTR 303 N/A THEA 304 THTR 304 N/A THEA 305 THTR 305 N/A THEA 306 THTR 307 N/A THEA 311 THTR 307 N/A THEA 312 THTR 311 N/A THEA 313	THEA-THEATRE		
THEA 1221 THTR 120 Unique THEA 1222 THTR 120 Unique THEA 1223 THTR 130 Unique THEA 1310 THTR 142 Common THEA 1310 THTR 142 Unique THEA 1310 THTR 142 Unique THEA 2221 THTR 149 Unique THEA 2310 THTR 141 Unique THEA 2310 THTR 141 Unique THEA 2340 THTR 250 Unique THEA 2415 THTR 299 Unique THEA 2415 THTR 299 Unique THEA 2993 THTR 200 Unique THEA 2996 THTR 200 Unique THEA 303 THTR 303 N/A THEA 304 THTR 303 N/A THEA 305 THTR 303 N/A THEA 308 THTR 307 N/A THEA 308 THTR 307 N/A THEA 311 THTR 311 N/A THEA 312 THTR 313 N/A THEA 313 THTR 314<	THEA 1110G	THTR 101G	Common
THEA 1222 THTR 130 Unique THEA 1223 THTR 130 Unique THEA 1310 THTR 142 Common THEA 1310 THTR 142 L Unique THEA 1415 THTR 149 Unique THEA 2221 THTR 210 Unique THEA 22310 THTR 141 L Unique THEA 2310L THTR 141 L Unique THEA 2340 THTR 250 Unique THEA 2415 THTR 249 Unique THEA 2930 THTR 200 Unique THEA 2993 THTR 200 Unique THEA 3093 THTR 200 Unique THEA 3096 THTR 200 N/A THEA 303 THTR 303 N/A THEA 304 THTR 303 N/A THEA 305 THTR 305 N/A THEA 306 THTR 307 N/A THEA 307V THTR 307 N/A THEA 310 N/A N/A THEA 311 THTR 312 N/A THEA 312 THTR 313	THEA 1210G	THTR 105	Common
THEA 1223 THTR 130 Unique THEA 1310 THTR 142 Common THEA 1310L THTR 142 L Unique THEA 1310L THTR 142 L Unique THEA 1415 THTR 149 Unique THEA 2221 THTR 210 Unique THEA 2310L THTR 141 L Unique THEA 2340 THTR 250 Unique THEA 2415 THTR 249 Unique THEA 2421 THTR 200 Unique THEA 2933 THTR 200 Unique THEA 2996 THTR 300 N/A THEA 300 THTR 301 N/A THEA 300 THTR 303 N/A THEA 305 THTR 303 N/A THEA 305 THTR 305 N/A THEA 308 THTR 307 N/A THEA 309 THTR 301 N/A THEA 310 THTR 310 N/A THEA 311 THTR 311 N/A THEA 312 N/A N/A THEA 313 N/A	THEA 1221	THTR 110	Unique
THEA 1223 THTR 130 Unique THEA 1310 THTR 142 L Oommon THEA 1310 THTR 142 L Unique THEA 1415 THTR 149 Unique THEA 2221 THTR 210 Unique THEA 2310 THTR 141 L Unique THEA 2340 THTR 141 L Unique THEA 2415 THTR 29 Unique THEA 2416 THTR 29 Unique THEA 2933 THTR 200 Unique THEA 2996 THTR 200 Unique THEA 300 THTR 301 N/A THEA 303 THTR 303 N/A THEA 304 THTR 303 N/A THEA 305 THTR 305 N/A THEA 307 THTR 308 N/A THEA 308 THTR 308 N/A THEA 310 THTR 310 N/A THEA 311 THTR 311 N/A THEA 312 N/A N/A THEA 313 THTR 314 N/A THEA 314 THTR 315	THEA 1222	THTR 120	Unique
THEA 1310L THTR 142 L Unique THEA 1415 THTR 149 Unique THEA 2221 THTR 210 Unique THEA 2310 THTR 141 Common THEA 2310L THTR 141 L Unique THEA 2340 THTR 249 Unique THEA 2415 THTR 249 Unique THEA 2993 THTR 200 Unique THEA 2996 THTR 200 Unique THEA 303 THTR 300 N/A THEA 304 THTR 300 N/A THEA 305 THTR 304 N/A THEA 305 THTR 307 N/A THEA 305 THTR 307 N/A THEA 306 THTR 307 N/A THEA 307 THTR 307 N/A THEA 310 THTR 301 N/A THEA 311 THTR 310 N/A THEA 312 THTR 312 N/A THEA 313 THTR 313 N/A THEA 314 THTR 317 N/A THEA 317 THTR 317 <	THEA 1223	THTR 130	Unique
THEA 1415 THTR 149 Unique THEA 2221 THTR 210 Unique THEA 2310 THTR 141 Common THEA 2310L THTR 141 L Unique THEA 2340 THTR 250 Unique THEA 2415 THTR 249 Unique THEA 2421 THTR 200 Unique THEA 2993 THTR 200 Unique THEA 300 THTR 300 N/A THEA 303 THTR 300 N/A THEA 303 THTR 304 N/A THEA 305 THTR 305 N/A THEA 307V THTR 305 N/A THEA 308 THTR 307V N/A THEA 308 THTR 310 N/A THEA 310 THTR 310 N/A THEA 311 THTR 311 N/A THEA 312 THTR 311 N/A THEA 313 THTR 314 N/A THEA 314 THTR 315 N/A THEA 320 THTR 321 N/A THEA 321 THTR 322 N/	THEA 1310	THTR 142	Common
THEA 1415 THTR 149 Unique THEA 2221 THTR 141 Common THEA 2310 THTR 141 L Unique THEA 2340 THTR 141 L Unique THEA 2445 THTR 250 Unique THEA 2421 THTR 220 Unique THEA 2993 THTR 200 Unique THEA 300 THTR 300 N/A THEA 303 THTR 303 N/A THEA 304 THTR 303 N/A THEA 305 THTR 304 N/A THEA 306 THTR 307V N/A THEA 310 THTR 308 N/A THEA 310 THTR 310 N/A THEA 311 THTR 310 N/A THEA 312 THTR 313 N/A THEA 314 THTR 313 N/A THEA 315 THTR 314 N/A THEA 316 THTR 317 N/A THEA 317 THTR 318 N/A THEA 320 THTR 320 N/A THEA 321 THTR 322 N/A <td>THEA 1310L</td> <td>THTR 142 L</td> <td>Unique</td>	THEA 1310L	THTR 142 L	Unique
THEA 2221 THTR 210 Unique THEA 2310 THTR 141 Common THEA 2310L THTR 141 L Unique THEA 2340 THTR 250 Unique THEA 2415 THTR 249 Unique THEA 2421 THTR 220 Unique THEA 2993 THTR 200 Unique THEA 3096 THTR 300 N/A THEA 303 THTR 303 N/A THEA 304 THTR 305 N/A THEA 305 THTR 305 N/A THEA 307V THTR 307V N/A THEA 308 THTR 307V N/A THEA 310 THTR 310 N/A THEA 311 THTR 311 N/A THEA 312 THTR 312 N/A THEA 313 THTR 313 N/A THEA 314 THTR 315 N/A THEA 315 THTR 316 N/A THEA 320 THTR 317 N/A THEA 320 THTR 321 N/A THEA 322 THTR 322 N/A<	THEA 1415	THTR 149	
THEA 2310 THTR 141 L Common THEA 2310L THTR 141 L Unique THEA 2340 THTR 250 Unique THEA 2415 THTR 249 Unique THEA 2421 THTR 220 Unique THEA 2993 THTR 200 Unique THEA 300 THTR 300 N/A THEA 300 THTR 300 N/A THEA 303 THTR 303 N/A THEA 304 THTR 304 N/A THEA 305 THTR 305 N/A THEA 307V THTR 307V N/A THEA 310 THTR 308 N/A THEA 311 THTR 310 N/A THEA 312 THTR 311 N/A THEA 313 THTR 313 N/A THEA 314 THTR 313 N/A THEA 315 THTR 316 N/A THEA 317 THTR 319 N/A THEA 320 THTR 320 N/A THEA 321 THTR 322 N/A THEA 322 THTR 323 N/A			
THEA 2310L THTR 141 L Unique THEA 2340 THTR 250 Unique THEA 2415 THTR 249 Unique THEA 2421 THTR 220 Unique THEA 2993 THTR 200 Unique THEA 2996 THTR 222 Unique THEA 300 THTR 303 N/A THEA 303 THTR 303 N/A THEA 304 THTR 304 N/A THEA 305 THTR 305 N/A THEA 307V THTR 307V N/A THEA 308 THTR 308 N/A THEA 308 THTR 308 N/A THEA 310 THTR 310 N/A THEA 311 THTR 311 N/A THEA 312 THTR 312 N/A THEA 313 THTR 313 N/A THEA 314 THTR 314 N/A THEA 315 THTR 315 N/A THEA 320 THTR 321 N/A THEA 320 THTR 321 N/A THEA 322 THTR 323 N/A	THEA 2310		
THEA 2340 THTR 250 Unique THEA 2415 THTR 249 Unique THEA 2421 THTR 200 Unique THEA 2993 THTR 200 Unique THEA 2996 THTR 222 Unique THEA 300 THTR 300 N/A THEA 303 THTR 303 N/A THEA 304 THTR 304 N/A THEA 305 THTR 305 N/A THEA 307V THTR 307V N/A THEA 310 THTR 310 N/A THEA 311 THTR 311 N/A THEA 312 THTR 312 N/A THEA 313 THTR 313 N/A THEA 314 THTR 314 N/A THEA 315 THTR 315 N/A THEA 316 THTR 317 N/A THEA 317 THTR 320 N/A THEA 320 THTR 321V N/A THEA 321V THTR 322 N/A THEA 323 THTR 329 N/A THEA 324 THTR 330 N/A </td <td></td> <td></td> <td></td>			
THEA 2415 THTR 249 Unique THEA 2421 THTR 220 Unique THEA 2993 THTR 200 Unique THEA 2996 THTR 222 Unique THEA 300 THTR 300 N/A THEA 303 THTR 303 N/A THEA 304 THTR 304 N/A THEA 305 THTR 305 N/A THEA 307V THTR 307V N/A THEA 308 THTR 308 N/A THEA 310 THTR 310 N/A THEA 311 THTR 311 N/A THEA 312 THTR 312 N/A THEA 313 THTR 313 N/A THEA 314 THTR 314 N/A THEA 315 THTR 315 N/A THEA 316 THTR 317 N/A THEA 320 THTR 320 N/A THEA 321V THTR 321V N/A THEA 323 THTR 323 N/A THEA 329 THTR 329 N/A THEA 330 THTR 334 N/A			
THEA 2421 THTR 220 Unique THEA 2993 THTR 200 Unique THEA 2996 THTR 222 Unique THEA 300 THTR 300 N/A THEA 303 THTR 303 N/A THEA 304 THTR 304 N/A THEA 305 THTR 305 N/A THEA 307V THTR 307V N/A THEA 308 THTR 310 N/A THEA 310 THTR 311 N/A THEA 311 THTR 311 N/A THEA 312 THTR 312 N/A THEA 313 THTR 313 N/A THEA 314 THTR 314 N/A THEA 315 THTR 315 N/A THEA 316 THTR 317 N/A THEA 320 THTR 320 N/A THEA 321V THTR 321V N/A THEA 323 THTR 323 N/A THEA 329 THTR 329 N/A THEA 320 THTR 329 N/A THEA 334 THTR 334 N/A			
THEA 2993 THTR 200 Unique THEA 2996 THTR 222 Unique THEA 300 THTR 300 N/A THEA 303 THTR 303 N/A THEA 304 THTR 304 N/A THEA 305 THTR 305 N/A THEA 307V THTR 307V N/A THEA 308 THTR 308 N/A THEA 310 THTR 310 N/A THEA 311 THTR 311 N/A THEA 312 THTR 312 N/A THEA 313 THTR 313 N/A THEA 314 THTR 314 N/A THEA 315 THTR 315 N/A THEA 317 THTR 317 N/A THEA 320 THTR 320 N/A THEA 321V THTR 321V N/A THEA 322 THTR 322 N/A THEA 323 THTR 329 N/A THEA 329 THTR 330 N/A THEA 330 THTR 334 N/A THEA 334 THTR 337 N/A			
THEA 2996 THTR 222 Unique THEA 300 THTR 300 N/A THEA 303 THTR 303 N/A THEA 304 THTR 304 N/A THEA 305 THTR 305 N/A THEA 307V THTR 307V N/A THEA 308 N/A N/A THEA 310 THTR 310 N/A THEA 311 THTR 311 N/A THEA 312 THTR 312 N/A THEA 313 THTR 313 N/A THEA 314 THTR 315 N/A THEA 315 THTR 315 N/A THEA 317 THTR 317 N/A THEA 320 THTR 320 N/A THEA 321V THTR 322 N/A THEA 323 THTR 323 N/A THEA 329 THTR 329 N/A THEA 330 THTR 334 N/A THEA 334 THTR 334 N/A THEA 337 THTR 337 N/A			
THEA 300 THTR 300 N/A THEA 303 THTR 303 N/A THEA 304 THTR 304 N/A THEA 305 THTR 305 N/A THEA 307V THTR 307V N/A THEA 308 THTR 308 N/A THEA 310 THTR 310 N/A THEA 311 THTR 311 N/A THEA 312 THTR 312 N/A THEA 313 THTR 313 N/A THEA 314 THTR 315 N/A THEA 315 THTR 316 N/A THEA 317 THTR 317 N/A THEA 320 THTR 320 N/A THEA 321 THTR 321V N/A THEA 323 THTR 323 N/A THEA 323 THTR 323 N/A THEA 329 THTR 329 N/A THEA 330 THTR 330 N/A THEA 334 THTR 330 N/A THEA 330 THTR 329 N/A THEA 330 THTR 329 N/A THEA 334 THTR 334 N/A THEA 334 THTR 334 N/A			
THEA 303 THTR 304 N/A THEA 304 THTR 305 N/A THEA 305 THTR 305 N/A THEA 307V THTR 307V N/A THEA 308 THTR 308 N/A THEA 310 THTR 310 N/A THEA 311 THTR 311 N/A THEA 312 THTR 312 N/A THEA 313 THTR 313 N/A THEA 314 THTR 314 N/A THEA 315 THTR 315 N/A THEA 317 THTR 317 N/A THEA 320 THTR 320 N/A THEA 321V THTR 321V N/A THEA 322 THTR 322 N/A THEA 323 THTR 323 N/A THEA 329 THTR 320 N/A THEA 330 THTR 330 N/A THEA 334 THTR 334 N/A THEA 337 THTR 337 N/A			
THEA 304 THTR 304 N/A THEA 305 THTR 305 N/A THEA 307V THTR 307V N/A THEA 308 THTR 308 N/A THEA 310 THTR 310 N/A THEA 311 THTR 311 N/A THEA 312 THTR 312 N/A THEA 313 THTR 313 N/A THEA 314 THTR 314 N/A THEA 315 THTR 315 N/A THEA 317 THTR 317 N/A THEA 320 THTR 320 N/A THEA 321V THTR 321V N/A THEA 322 THTR 323 N/A THEA 323 THTR 323 N/A THEA 329 THTR 320 N/A THEA 330 THTR 330 N/A THEA 334 THTR 334 N/A THEA 337 THTR 337 N/A			
THEA 305 THTR 307V N/A THEA 307V THTR 307V N/A THEA 308 THTR 308 N/A THEA 310 THTR 310 N/A THEA 311 THTR 311 N/A THEA 312 THTR 312 N/A THEA 313 THTR 313 N/A THEA 314 THTR 314 N/A THEA 315 THTR 315 N/A THEA 317 THTR 317 N/A THEA 320 THTR 320 N/A THEA 321V THTR 321V N/A THEA 322 THTR 322 N/A THEA 323 THTR 323 N/A THEA 329 THTR 320 N/A THEA 330 THTR 330 N/A THEA 334 THTR 334 N/A THEA 337 THTR 337 N/A			
THEA 307V THTR 307V N/A THEA 308 THTR 308 N/A THEA 310 THTR 310 N/A THEA 311 THTR 311 N/A THEA 312 THTR 312 N/A THEA 313 THTR 313 N/A THEA 314 THTR 314 N/A THEA 315 THTR 315 N/A THEA 317 THTR 317 N/A THEA 320 THTR 320 N/A THEA 321V THTR 321V N/A THEA 322 THTR 322 N/A THEA 323 THTR 323 N/A THEA 329 THTR 329 N/A THEA 330 THTR 334 N/A THEA 334 THTR 334 N/A THEA 337 THTR 337 N/A			
THEA 308 THTR 308 N/A THEA 310 THTR 310 N/A THEA 311 THTR 311 N/A THEA 312 THTR 312 N/A THEA 313 N/A N/A THEA 314 THTR 314 N/A THEA 315 THTR 315 N/A THEA 317 THTR 317 N/A THEA 320 THTR 320 N/A THEA 321V THTR 321V N/A THEA 322 THTR 322 N/A THEA 323 THTR 323 N/A THEA 329 THTR 329 N/A THEA 334 THTR 334 N/A THEA 337 THTR 337 N/A			
THEA 310 THTR 310 N/A THEA 311 THTR 311 N/A THEA 312 THTR 312 N/A THEA 313 THTR 313 N/A THEA 314 THTR 314 N/A THEA 315 THTR 315 N/A THEA 317 THTR 317 N/A THEA 320 THTR 320 N/A THEA 321V THTR 321V N/A THEA 322 THTR 322 N/A THEA 323 THTR 323 N/A THEA 329 THTR 329 N/A THEA 330 THTR 334 N/A THEA 334 THTR 334 N/A THEA 337 THTR 337 N/A			
THEA 311 THTR 311 N/A THEA 312 THTR 312 N/A THEA 313 THTR 313 N/A THEA 314 THTR 314 N/A THEA 315 THTR 315 N/A THEA 317 THTR 317 N/A THEA 320 THTR 320 N/A THEA 321V THTR 321V N/A THEA 322 THTR 322 N/A THEA 323 THTR 323 N/A THEA 329 THTR 329 N/A THEA 330 THTR 330 N/A THEA 334 THTR 334 N/A THEA 337 THTR 337 N/A			
THEA 312 THTR 312 N/A THEA 313 THTR 313 N/A THEA 314 THTR 314 N/A THEA 315 THTR 315 N/A THEA 317 THTR 317 N/A THEA 320 THTR 320 N/A THEA 321V THTR 321V N/A THEA 322 THTR 322 N/A THEA 323 THTR 323 N/A THEA 329 THTR 329 N/A THEA 330 THTR 330 N/A THEA 334 THTR 334 N/A THEA 337 THTR 337 N/A			
THEA 313 THTR 313 N/A THEA 314 N/A N/A THEA 315 THTR 315 N/A THEA 317 THTR 317 N/A THEA 320 THTR 320 N/A THEA 321V THTR 321V N/A THEA 322 THTR 322 N/A THEA 323 THTR 323 N/A THEA 329 THTR 329 N/A THEA 330 THTR 330 N/A THEA 334 THTR 334 N/A THEA 337 THTR 337 N/A			
THEA 314 THTR 314 N/A THEA 315 THTR 315 N/A THEA 317 THTR 317 N/A THEA 320 THTR 320 N/A THEA 321V THTR 321V N/A THEA 322 THTR 322 N/A THEA 323 THTR 323 N/A THEA 329 THTR 329 N/A THEA 330 THTR 330 N/A THEA 334 THTR 334 N/A THEA 337 THTR 337 N/A			
THEA 315 THTR 315 N/A THEA 317 THTR 317 N/A THEA 320 THTR 320 N/A THEA 321V THTR 321V N/A THEA 322 THTR 322 N/A THEA 323 THTR 323 N/A THEA 329 THTR 329 N/A THEA 330 THTR 330 N/A THEA 334 THTR 334 N/A THEA 337 THTR 337 N/A			
THEA 317 THTR 317 N/A THEA 320 THTR 320 N/A THEA 321V THTR 321V N/A THEA 322 THTR 322 N/A THEA 323 THTR 323 N/A THEA 329 THTR 329 N/A THEA 330 THTR 330 N/A THEA 334 THTR 334 N/A THEA 337 THTR 337 N/A			
THEA 320 THTR 320 N/A THEA 321V THTR 321V N/A THEA 322 THTR 322 N/A THEA 323 THTR 323 N/A THEA 329 THTR 329 N/A THEA 330 THTR 330 N/A THEA 334 THTR 334 N/A THEA 337 THTR 337 N/A			
THEA 321V THTR 321V N/A THEA 322 THTR 322 N/A THEA 323 THTR 323 N/A THEA 329 THTR 329 N/A THEA 330 THTR 330 N/A THEA 334 THTR 334 N/A THEA 337 THTR 337 N/A			
THEA 322 THTR 322 N/A THEA 323 THTR 323 N/A THEA 329 THTR 329 N/A THEA 330 THTR 330 N/A THEA 334 THTR 334 N/A THEA 337 THTR 337 N/A			
THEA 323 THTR 323 N/A THEA 329 THTR 329 N/A THEA 330 THTR 330 N/A THEA 334 THTR 334 N/A THEA 337 THTR 337 N/A			
THEA 329 THTR 329 N/A THEA 330 THTR 330 N/A THEA 334 THTR 334 N/A THEA 337 THTR 337 N/A			
THEA 330 THTR 330 N/A THEA 334 THTR 334 N/A THEA 337 THTR 337 N/A			
THEA 334 THTR 334 N/A THEA 337 THTR 337 N/A			
THEA 337 THTR 337 N/A			
THEA 341 N/A			
	THEA 341	THTR 341	N/A

THEA 343	THTR 343	N/A
THEA 345	THTR 345	N/A
THEA 346	THTR 346	N/A
THEA 347	THTR 347	N/A
THEA 348	THTR 348	N/A
THEA 349	THTR 349	N/A
THEA 352	THTR 352	N/A
THEA 353	THTR 353	N/A
THEA 354	THTR 354	N/A
THEA 355	THTR 355	N/A
THEA 356	THTR 356	N/A
THEA 357	THTR 357	N/A
THEA 360	THTR 360	N/A
THEA 366	THTR 366	N/A
THEA 384	THTR 395	N/A
THEA 395	THTR 395	N/A
THEA 396	THTR 396	N/A
THEA 408	THTR 408	N/A
THEA 409	THTR 409	N/A
THEA 410	THTR 410	N/A
THEA 414	THTR 414	N/A
THEA 417	THTR 417	N/A
THEA 430	THTR 430	N/A
THEA 435	THTR 435	N/A
THEA 439	THTR 439	N/A
THEA 440	THTR 440	N/A
THEA 450	THTR 450	N/A
THEA 457	THTR 457	N/A
THEA 535	THTR 535	N/A

Academic and Career Programs

Programs offered at New Mexico State University - Dona Ana Community College

Programs are titled in the following styles:

- Business Management (Finance & Banking Services) Associate of Applied Science
 - Major Title (Business Management), will appear on diplomas and transcripts
 - Concentration Title (Finance & Banking Services), will appear on diplomas and transcripts
 - Degree Title (Associate of Applied Science), will appear on diplomas and transcripts

All DACC associate's degrees and certificates require a minimum grade of C- or better in ENGL 1110G Composition I and the designated mathematics requirement.

Information about each career or academic program and its various degrees and certificates may be accessed from either the navigation menu at the left or through the information below.

A

- · Adult Education (p. 320)
- · Advertising Representative Certificate of Achievement (p. 136)

- Aerospace Technology Associate of Applied Science (p. 100)
- Aerospace Technology Certificate of Completion (p. 102)
- · Allied Healthcare Assistant (p. 102)
- Architectural Technology Associate of Applied Science (p. 210)
- · Architectural Technology Certificate of Completion (p. 215)
- · Associate in General Studies (p. 111)
- · Associate of Arts (p. 112)
- · Associate of Science (p. 115)
- · Automation and Manufacturing Certificate of Completion (p. 122)
- Automation and Manufacturing Technology Associate of Applied Science (p. 120)
- · Automotive Technology Associate of Applied Science (p. 124)
- Automotive Technology Certificate of Completion (p. 126)

B

- Basic Firefighter Certificate of Completion (p. 263)
- Basic Manufacturing and Bridge Certificate of Completion (p. 122)
- Basic Residential Wiring Certificate of Completion (p. 131)
- Basic Solar Certificate of Completion (p. 132)
- Basic Solar Certificate of Completion (p. 256)
- Biomedical Electronics Certificate of Completion (p. 243)
- <u>Building Construction Technology Associate of Applied Science</u> (p. 129)

- Building Construction Technology Certificate of Completion (p. 130)
- · Business Fundamentals Certificate of Completion (p. 136)
- Business Management (Finance & Banking Services) Associate of Business Occupations (p. 140)
- Business Management (General Management) Associate of Business Occupations (p. 141)
- Business Management (Retail Marketing & Sales) Associate of Business Occupations (p. 142)
- Business Management Associate of Business Occupations (p. 138)

C

- · Cisco Networking Certificate of Completion (p. 159)
- Civil/Survey Technology Associate of Applied Science (p. 211)
- <u>Civil/Survey Technology Certificate of Completion</u> (p. 215)
- Commercial Photography Certificate of Completion (p. 173)
- Community Health Worker Certificate (p. 302)
- Computed Tomography Certificate of Completion (p. 307)
- Computer and Information Technology Certificate of Completion (p. 160)
- · Computer Information Systems Certificate of Completion (p. 160)
- Computer Technology (IT Specialist) Associate of Applied Science (p. 150)
- Computer Technology (Networking) Associate of Applied Science (p. 152)
- Computer Technology (Programming) Associate of Applied Science (p. 155)
- Corrections Associate of Applied Science (p. 181)
- Creative Media Certificate of Achievement (p. 173)
- Criminal Justice Associate of Criminal Justice (p. 183)
- · Culinary Arts Associate of Applied Science (p. 188)
- · Culinary Arts Baking & Pastry Certificate of Completion (p. 189)
- Culinary Arts Savory Certificate of Completion (p. 190)
- Cybersecurity Associate of Applied Science (p. 157)
- · Cybersecurity Certificate of Completion (p. 161)

D

- · Dental Assistant Certificate of Completion (p. 192)
- · Dental Hygiene Associate of Applied Science (p. 196)
- Diagnostic Medical Sonography Associate of Applied Science (p. 202)
- · Diagnostic Medical Sonography Certificate of Completion (p. 204)
- <u>Digital Audio Certificate of Completion</u> (p. 174)
- <u>Digital Film Associate of Applied Science</u> (p. 169)
- Digital Graphics Certificate of Completion (p. 174)
- <u>Digital Graphics Technology Associate of Applied Science</u> (p. 170)
- <u>Digital Video Certificate of Completion</u> (p. 175)
- <u>Drafting and Graphics Technology- Certificate of Completion</u> (p. 216)

E

- · Early Childhood Administrator Certificate (p. 223)
- Early Childhood Education Associate Degree (p. 221)

- Education (Elementary Education) Associate Degree (p. 224)
- Education (Elementary Education-Special Education) Associate Degree (p. 226)
- Education (Secondary Language Arts) Associate Degree (p. 228)
- Education (Secondary Math) Associate Degree (p. 230)
- Education (Secondary Science) Associate Degree (p. 232)
- Education (Secondary Social Studies) Associate Degree (p. 234)
- Electrical Lineworker Certificate (p. 237)
- Electrocardiogram Technician Course Completion Certificate (p. 110)
- Electronics Technology (Biomedical Electronics) Associate of Applied Science (p. 240)
- Electronics Technology (General Electronics) Associate of Applied Science (p. 242)
- Electronics Technology Certificate of Completion (p. 244)
- Emergency Medical Services Associate of Applied Science (p. 248)
- EMT Basic Certificate of Achievement (p. 250)
- · EMT Intermediate Certificate of Achievement (p. 251)
- EMT Paramedic Certificate of Completion (p. 251)
- Energy Auditing Certificate of Completion (p. 132)
- Energy Conservation Certificate of Completion (p. 257)
- · Energy Evaluation Certificate of Completion (p. 258)
- Environmental and Energy Technologies Associate of Applied Science (p. 255)

F

- Film Crew Training Certificate of Completion (p. 176)
- Fire Science Technology Associate of Applied Science (p. 262)
- First Responder Prehospital Certificate of Achievement (p. 253)

G

- Game Design Certificate of Completion (p. 176)
- Game Development Associate of Applied Science (p. 172)
- · General Business Management Certificate of Completion (p. 137)
- · General Engineering Associate of Science (p. 265)
- Geographical Information Systems Certificate of Completion (p. 216)
- Graphics and Animation Certificate of Completion (p. 177)

Н

- Health Information Technology Associate of Applied Science (p. 268)
- · Health Information Technology Certificate of Completion (p. 270)
- Heating, Ventilation, Air Conditioning and Refrigeration Associate of Applied Science (p. 272)
- Hospitality and Tourism (Food & Beverage) Associate of Applied Science (p. 277)
- Hospitality and Tourism (Lodging & Tourism) Associate of Applied Science (p. 279)
- Hospitality Services Management Associate of Applied Science (p. 281)
- HVAC/R Certificate of Completion (p. 274)

- · Law Enforcement Associate of Applied Science (p. 184)
- · Licensed Practical Nurse Certificate (p. 286)

M

- Mechanical Drafting and Solid Modeling Associate of Applied Science (p. 212)
- Mechanical Drafting and Solid Modeling Certificate of Completion (p. 217)
- Medical Assisting Associate of Applied Science (p. 107)
- Medical Billing Certificate (p. 296)
- Medical Transcription Certificate (p. 297)

N

- Nursing Associate in Nursing (p. 285)
- Nursing Assistant Certificate of Completion (p. 106)

0

- Office Administration Technology (Administrative Assistant) -Associate of Applied Science (p. 290)
- Office Administration Technology (Bookkeeping Assistant) -Associate of Applied Science (p. 292)
- Office Administration Technology (Medical Office Assistant) -Associate of Applied Science (p. 293)
- Office Administration Technology Certificate (p. 295)
- Oracle Programming Certificate of Completion (p. 162)

P

- · Patient Care Technician Certificate of Completion (p. 108)
- Phlebotomist Course Completion Certificate (p. 109)
- · Plumbing Certificate of Completion (p. 133)
- Pre-Architecture Associate of Applied Science (p. 213)
- Pre-Architecture Certificate of Completion (p. 218)
- Pre-Business Associate Degree (p. 297)
- Pre-Surgical Technician Program (p. 110)
- Programming Certificate of Completion (p. 162)
- Public Health Associate of Public Health (p. 300)
- Public Safety First Line Supervisor Certificate of Achievement (p. 185)

R

- Radiologic Technology Associate of Applied Science (p. 305)
- · Residential HVAC Certificate of Completion (p. 275)
- Respiratory Therapy Associate of Applied Science (p. 309)

S

- · Small Business Development Center (p. 322)
- Solar Energy Technology Certificate of Completion (p. 259)
- System Administration Certificate of Completion (p. 163)

W

- · Water Technology Associate of Water Technology (p. 313)
- · Water Technology Certificate of Completion (p. 315)

- Web Design Certificate of Completion (p. 178)
- · Welding Technology Associate of Applied Science (p. 318)
- Welding Technology Certificate of Completion (p. 320)

Aerospace Technology

Aerospace Technology - Associate of Applied Science Degree

Aerospace Technology - Certificate of Completion

Aerospace technology refers to the construction, testing, and maintenance of aircraft and space vehicles. Technicians may be involved in the assembly, service, testing, operation, and repair of systems associated with dependable and reusable space launch vehicles and related ground support equipment. The successful candidate in this new field will possess a very broad range of technology-based skills.

The curriculum includes the core skills used in spaceflight technology, as well as instruction in commercial spaceflight requirements. It also prepares students for the nationally recognized SpaceTEC certification examination, which qualifies graduates for opportunities at Spaceport America and emerging local aerospace-related industries in southern New Mexico. The broad skills and knowledge students acquire in this program also are applicable to jobs in electronics and manufacturing.

Students may complete the Aerospace Technology program on a parttime basis by taking classes during the evening or during the day.

Additional Graduation Requirements

To receive either an associate degree or a certificate of completion, students are required to obtain a Career Readiness Certificate in the areas of Applied Math, Reading for Information, and Locating Information, at the appropriate level for their respective certificate or degree. To facilitate success in obtaining their Career Readiness Certificate students will be required to take 1 credit of OETS 102 Career Readiness Certification Preparation. A program advisor can provide additional information.

Click HERE to visit the Aerospace Technology website.

Aerospace Technology - Associate of Applied Science (p. 100)

Aerospace Technology - Certificate of Completion (p. 102)

AERT 105. Aerospace Engineering PLTW 4 Credits (2+4P)

Introduce the student to Aerospace Engineering (AE) concepts and history. Studied topics include History of Flight, Aerodynamics, Rocket Science, Orbital Physics, Systems Engineering and Life Support/Environmental Systems. Restricted to: Community Colleges only.

AERT 111. Basic Electricity and Electronics 3 Credits (2+2P)

Fundamentals of electricity and electronics, basic circuit devices, meters, transistors, integrated fiber optics, and industrial application topics. Minimum math proficiency of CCDM 103 or CCDM 104 required or math placement into CCDM 114 or higher. Restricted to: Community Colleges only. Crosslisted with: ELT 105

AERT 121. Introduction to the Aerospace Workplace 4 Credits (2+4P)

The course covers space history, regulations, controls, aerospace industry terminology and acronyms as well as hands-on activities related to tools, procedures, and standard practices. Restricted to: Community Colleges only.

AERT 122. Aerospace Safety and Quality 3 Credits (2+2P)

Covers identification of hazards, personal protective equipment, safe practices, and protection of personnel, property, and equipment in the aerospace environment. Basic principles of quality assurance engineering and quality control relating to work processes will be discussed. Restricted to: Community Colleges only.

AERT 211. Electromechanical Devices 4 Credits (2+4P)

Theory and application of electromechanical devices and digital control circuits. Includes AD and DA converters, pneumatics, hydraulics, programmable logic controllers, DC, AC and stepper motors, and servomechanisms. Crosslisted with: MAT 240.

Prerequisite(s): ELT 160.

AERT 212. Materials and Processes (Basic Metallurgy) 3 Credits (2+2P)

Basic Metallurgy: Aluminum and its alloys (Alclad), hardening, tempering, annealing, anodizing, magnetism, titanium, copper, stainless steel, surgical steel, safety wire, iron rust. Metallurgical Processes: Welding and soldering. Inspection Fundamentals: Eddy currents, magnetic particles (ferrous and non-ferrous metals), ultrasonic, x-ray, visual, corrosion and corrosion control, and vacuum bagging. Restricted to: Community Colleges only.

AERT 213. Aerospace Fluid Systems

3 Credits (2+2P)

This course includes a familiarization of fluid system components, characteristics, and applications. Cryogenic and hypergolic materials and high pressure systems are also covered. Restricted to: Community Colleges only.

AERT 214. Aerospace Systems

3 Credits (2+2P)

This course provides an introduction to expendable and reusable spacecraft systems including hydraulic, pneumatic, electrical, propulsion, mechanical, HVAC, and ECLSS (Environmental Control and Life Support System). How systems interact with computer and data acquisition systems is also covered. Restricted to: Community Colleges only.

AERT 221. Inspection Requirements and Planning Metrology 3 Credits (2+2P)

Course teaches the benefits of inspection, quality control, material conditions. Also covers measurements, including temperature, ultrasonic, vibration and more. Restricted to: Community Colleges only.

AERT 222. Electromechanical Systems 3 Credits (2+2P)

Principles and applications of preventive and corrective maintenance procedures on industrial production machines using systems technical and maintenance manuals to develop troubleshooting procedures using systems block and schematic diagrams. Crosslisted with: MAT 245. Prerequisite(s)/Corequisite(s): AERT 221 or MAT 240. Prerequisite(s): ELT 160.

AERT 224. Aerospace Tests and Measurements 3 Credits (2+2P)

This course covers electrical and mechanical testing procedures (primarily non-destructive testing), equipment, measurements, and instrumentation involved in aerospace systems. Verification of tool and equipment calibration is also covered.

Prerequisite(s)/Corequisite(s): AERT 221. Restricted to: Community Colleges only.

AERT 225. Cooperative Experience

1-3 Credits (1-3)

Supervised cooperative work program. Student is employed in an approved occupation and supervised and rated by the employer and instructor. Consent of instructor required. Graded: S/U. Restricted to: Community Colleges only.

AERT 255. Special Topics

1-4 Credits (1-4)

Specific topics to be announced in the Schedule of Classes. Restricted to: Community Colleges only.

AERT 290. Independent Study

1-3 Credits (1-3)

Individual studies in areas directly related to aerospace. Consent of instructor required. Restricted to: Community Colleges only.

Name: Luis Meza, Department Chair

Office Location: DAWD 116A

Phone: (575) 527-7564

Website: https://dacc.nmsu.edu/aert/

Aerospace Technology - Associate of Applied Science

Doña Ana Community College 2020-21 Catalog

(60 credits)

NOTE: Not all General Education ('G') courses listed below are taught at DACC. Please check DACC's current schedule for actual course offerings.

NOTE: Students must earn a final grade of C- or better in all Technical Requirements and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 60 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Title Credits

12-14

General Education Requirements

following:

Choose one course from four of the following six content areas for a total of 12-14 credits 1,2

This degree requires courses from Areas I, III, IV and V; students do not need to take any additional General Education courses to meet the

requirement Area I: Communications - English Composition Level 1

Composition I 3 ENGL 1110G

Area III: Laboratory Sciences - Choose one from the following:

PHYS 1230G Algebra-Based Physics I & PHYS 1230L and Algebra-Based Physics I Lab PHYS 1310G Calculus -Based Physics I

and Calculus -Based Physics I Lab ³ & PHYS 1310L Area IV: Social/Behavioral Sciences - Choose one from the

PSYC 1110G Introduction to Psychology³

or SOCI 11100	Introduction to Sociology	
ENGL 1410G	Introduction to Literature ³	
ENGL 2520G	Film as Literature ³	
ENGL 2310G	Introduction to Creative Writing ³	
ENGL 2650G	World Literature I ³	
HIST 1105G	Making History ³	
HIST 1110G	United States History I ³	
HIST 1120G	United States History II ³	
HIST 1130G	World History I ³	
HIST 1140G	World History II ³	
HIST 1150G	Western Civilization I ³	
HIST 1160G	Western Civilization II ³	
HIST 2245G	Islamic Civilizations to 1800 ³	
HIST 2246G	Islamic Civilizations since 1800 ³	
HIST 2250G	East Asia to 1600 ³	
HIST 2251G	East Asia since 1600 ³	
PHIL 1115G	Introduction to Philosophy ³	
PHIL 1120G	Logic, Reasoning, & Critical Thinking ³	
PHIL 1140G	Ouest for God ³	
PHIL 1145G	Philosophy, Law, and Ethics ³	
PHIL 1155G	Philosophy of Music ³	
PHIL 2110G	Introduction to Ethics ³	
PHIL 2110G	Philosophical Thought ³	
Level 2	ctive - Area I: Communications - English Composition	
ENGL 2210G	Professional & Technical Communication ³	3
Core Requirements		
MATH 1250G	Trigonometry & Pre-Calculus (transfer track) ³	4
or ELT 120	Mathematics for Electronics	
Technical Requiremen	ats ⁴	
ELT 105	Basic Electricity and Electronics	3
MAT 105	Introduction to Manufacturing	3
MAT 102	Print Reading for Industry	3
MAT 110	Machine Operation and Safety	3
AERT 121	Introduction to the Aerospace Workplace	4
or AERT 105	Aerospace Engineering PLTW	
ELT 110	Electronics I	4
AERT 212	Materials and Processes (Basic Metallurgy)	3
or WELD 120	Basic Metallurgy	
AERT 213	Aerospace Fluid Systems	3
AERT 214	Aerospace Systems	3
AERT 221	Inspection Requirements and Planning Metrology	3
MAT 265	Special Topics	3
AERT 224	Aerospace Tests and Measurements	3
OETS 102	Career Readiness Certification Preparation	1
	225. Headings of this digit is repaid to it	

Each course selected must be from a different area and students cannot take multiple courses in the same area.

Total Credits

- 2 See the General Education (p. 52) section of the catalog for a full list of courses.
- 3 Courses are identical to those offered at New Mexico State University Las Cruces (main) Campus.
- A final grade of C- or better is required in all 100-level technical courses to progress to 200-level technical courses.

(60 credits)

60

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may very from fall to spring semester and may be subject to modification or change.

NOTE: Students must earn a final grade of C- or better in all Technical Requirements and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 60 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course	Title	Credits
Semester 1		
FALL	,	
MATH 1250G or ELT 120	Trigonometry & Pre-Calculus ¹ or Mathematics for Electronics	4
AERT 121 or AERT 105	Introduction to the Aerospace Workplace or Aerospace Engineering PLTW	4
ELT 105	Basic Electricity and Electronics	3
MAT 105	Introduction to Manufacturing	3
MAT 110	Machine Operation and Safety	3
	Credits	17
Semester 2		
SPRING		
Area I: Communicati	ons - English Composition Level 1	4
ENGL 1110G	Composition I	
Area V: Humanities -	Choose one from the following:	3
ENGL 1410G	Introduction to Literature	
ENGL 2310G	Introduction to Creative Writing	
ENGL 2520G	Film as Literature	
ENGL 2650G	World Literature I	
HIST 1105G	Making History	
HIST 1110G	United States History I	
HIST 1120G	United States History II	
HIST 1130G	World History I	
HIST 1140G	World History II	
HIST 1150G	Western Civilization I	
HIST 1160G	Western Civilization II	
HIST 2245G	Islamic Civilizations to 1800	
HIST 2246G	Islamic Civilizations since 1800	
HIST 2250G	East Asia to 1600	
HIST 2251G	East Asia since 1600	
PHIL 1115G	Introduction to Philosophy	
PHIL 1120G	Logic, Reasoning, & Critical Thinking	
PHIL 1140G	Quest for God	
PHIL 1145G	Philosophy, Law, and Ethics	
PHIL 1155G	Philosophy of Music	
PHIL 2110G	Introduction to Ethics	
PHIL 2230G	Philosophical Thought	
ELT 110	Electronics I	4

	Total Credits	60
	Credits	16
MAT 265	Special Topics	3
AERT 224	Aerospace Tests and Measurements	3
AERT 221	Inspection Requirements and Planning Metrology	3
AERT 212 or WELD 120	Materials and Processes (Basic Metallurgy) or Basic Metallurgy	3
PHYS 1310G & PHYS 1310L	Calculus -Based Physics I and Calculus -Based Physics I Lab	
PHYS 1230G & PHYS 1230L	Algebra-Based Physics I and Algebra-Based Physics I Lab	
Area III: Laboratory Sc	iences - Choose one from the following:	4
SPRING		
Semester 5	orcats	10
0210 102	Credits	10
0ETS 102	Career Readiness Certification Preparation	1
AFRT 214	Aerospace Fluid Systems Aerospace Systems	3
ENGL 2210G AERT 213	Professional & Technical Communication	•
Composition Level 2	ctive - Area I: Communications - English	3
FALL		
Semester 4		
	Credits	3
PSYC 1110G or SOCI 1110G	Introduction to Psychology or Introduction to Sociology	
Area IV: Social/Behavi	oral Sciences	3
SUMMER		
Semester 3	Cicano	
	Credits	14
MAT 102	Print Reading for Industry	3

While ELT 120 meets program requirements, it does not meet the NM General Education Area II: Mathematics requirements.

Aerospace Technology - Certificate of Completion

Doña Ana Community College 2020-21 Catalog

(29 credits)

NOTE: Students must earn a final grade of C- or better in all Technical Requirements and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University certificate requirements to total at least 29 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
Technical Requirement	s ¹	
ELT 105	Basic Electricity and Electronics	3
MAT 105	Introduction to Manufacturing	3
MAT 102	Print Reading for Industry	3

MAT 110	Machine Operation and Safety	3
AERT 121	Introduction to the Aerospace Workplace	4
or AERT 105	Aerospace Engineering PLTW	
AERT 213	Aerospace Fluid Systems	3
AERT 214	Aerospace Systems	3
AERT 221	Inspection Requirements and Planning Metrology	3
AERT 224	Aerospace Tests and Measurements	3
OETS 102	Career Readiness Certification Preparation	1
Total Credits		29

A final grade of *C*- or better is required in all 100-level technical courses to progress to 200-level technical courses.

(29 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may very from fall to spring semester and may be subject to modification or change.

NOTE: Students must earn a final grade of C- or better in all Technical Requirements and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University certificate requirements to total at least 29 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course	Title	Credits
Semester 1		
AERT 121	Introduction to the Aerospace Workplace	4
ELT 105	Basic Electricity and Electronics	3
MAT 105	Introduction to Manufacturing	3
	Credits	10
Semester 2		
AERT 221	Inspection Requirements and Planning Metrology	3
AERT 224	Aerospace Tests and Measurements	3
MAT 102	Print Reading for Industry	3
MAT 110	Machine Operation and Safety	3
OETS 102	Career Readiness Certification Preparation	1
	Credits	13
Semester 3		
AERT 213	Aerospace Fluid Systems	3
AERT 214	Aerospace Systems	3
	Credits	6
	Total Credits	29

Allied Healthcare Assistant

The versatile Allied Healthcare Assistant program has been designed to allow graduates to take advantage of expanding health career opportunities. The program consists of courses which can be taken

separately for individual certifications, or together as part of a complete college certificate or associate's degree.

Associate's Degree

· Medical Assisting - Associate of Applied Science (66 credits)

Certificates of Completion

- · Nursing Assistant (16 Credits)
- · Patient Care Technician (38-42 Credits)

Course-Completion Certificates

- · Phlebotomist Basic
- · Electrocardiogram Technician

Clinical course registration is contingent upon completion and submission of the <u>clinical clearance</u> packet to <u>Castlebranch</u>, the results from the <u>New Mexico Department of Health Caregiver Criminal History Screening Program (CCHSP)</u> and drug screen.

Categories of Essential Functions

To participate in the courses offered in the Patient Care Technician Certificate Program, the student must be capable of performing the following:

Observation.

- Visually discriminate incremental readings on various types of medical equipment;
- 2. Visually discriminate between different colored objects;
- 3. Discriminate between various auditory stimuli.

Communication.

- Communicate effectively in English, using verbal, nonverbal, and written formats;
- 2. Read and interpret the English language without assistance.

Motor.

- 1. Stand for at least 5 hours;
- 2. Lift/carry 50 pounds; a release from MD may be required
- 3. Perform patient-care procedures with finger and manual dexterity.

Intellectual.

1. Collect, interpret, and integrate information.

Special Pre-Registration Requirements ("The Clinical Packet")

Before registering for any courses that are a co-requisite for a clinical course or a clinical course (NA 105 Nursing Assistant Clinicals, NA 109 Phlebotomist Basic, NA 110 Electrocardiogram Technician Basic, NA 205 Patient Care Technicians Practicum, NA 214 Medical Assistant Practicum), students must submit documentation of the following on-line to Castlebranch at https://www.castlebranch.com/online_submission/package_code.php:

 A signed statement that the student can perform the essential functions of the program without restrictions from an MD. (listed above)

· TETANUS, DIPTHERIA, PERTUSSIS (Tdap)

- · A booster within last 9 years
- · Adult Tdap required once

· MMR (Measles, Mumps, Rubella)

- · Proof of vaccination (2 doses) OR
- Proof of immunity by titers (Rubeola, Mumps, and Rubella). <u>Must include a copy of the lab report</u>

· VARICELLA (Chicken Pox)

- · Proof of vaccination (2 doses) OR
- · Proof of immunity by titer. Must include the copy of the lab report
- · History of Disease is NOT accepted

· HEPATITIS B

- · Proof of immunity by vaccination (3 doses) OR
- · Proof of immunity by titer. Must include a copy of the lab report

TUBERCULIN STATUS

 Annual Tuberculous (TB) status is required. Depending on your past status and testing there are different options.

Option 1: Initial Two-Step Skin Test

- (1) receive the test, (2) return 48-72 hours later for reading, (3) wait 1-3 weeks, (4) repeat steps 1 & 2.
- If no history or more than 12 months since last Tb Skin Test # 2 step Tb Skin Test required

· Option 2: Annual Skin Test

 If negative TB Test within 12 months # one step Tb Skin Test (for a total of 2 within 12 months)

· Option 3: QuantiFeron Gold (QFT) Blood Test

 Annual QFT is acceptable instead of Tb Skin Test. Like Tb Test, must be within 12 months and be negative

Option 4: History of Positive Tb Skin Test or QuantiFeron Gold (QFT) Blood Test

- If History of Positive Tb Skin Test, submit the following:
 - · Date of Positive Tb with induration (mm)
 - · Proof of chest x-ray
 - Complete Symptom Check Sheet (contact Health Services for form)
- If new positive TB # Follow-up by a healthcare provider. Must complete treatment as recommended
- If a history of BCG vaccine # TST Skin Testing or QFT as above. If negative # OK; If positive # follow up as above.
- American Heart Association Healthcare Provider BLS-CPR card (cannot expire while taking courses); <u>Heartsaver is not accepted.</u>
- 7-10 panel Drug Screen ordered via Castlebranch and delivered directly to the program. <u>A drug screen result hand-carried by a student</u> <u>will not be accepted</u>. A positive screening result may prevent the student from gaining employment, obtaining state and national certifications, and continuing in the following courses:

Prefix	Title	Credits
NA 104	Nursing Assistant Fundamentals	3
NA 104 L	Nursing Assistant Fundamentals Lab	1
NA 105	Nursing Assistant Clinicals	4
NA 109	Phlebotomist Basic	4
NA 110	Electrocardiogram Technician Basic	4
NA 204	Patient Care Technician	4
NA 205	Patient Care Technicians Practicum	4
NA 212	Medical Assistant Capstone Course	6
NA 214	Medical Assistant Practicum	6

Additional information regarding specific requirements is available from the program office in DAHL Room 190 and on the <u>program web-page</u>.

Criminal History Screening

Prospective students are required to complete digital fingerprints and receive a clearance letter from N.M. Department of Health Caregiver Criminal History Screening Program. Past criminal violations may prevent a student from obtaining state and national certification, or from gaining employment in the field, and enrolling in the following courses:

Prefix	Title	Credits
NA 104	Nursing Assistant Fundamentals	3
NA 104 L	Nursing Assistant Fundamentals Lab	1
NA 105	Nursing Assistant Clinicals	4
NA 109	Phlebotomist Basic	4
NA 110	Electrocardiogram Technician Basic	4
NA 204	Patient Care Technician	4
NA 205	Patient Care Technicians Practicum	4
NA 214	Medical Assistant Practicum	6
NA 212	Medical Assistant Capstone Course	6

Nursing Assistant - Certificate of Completion (p. 106)

Medical Assisting - Associate of Applied Science (p. 107)

Patient Care Technician - Certificate of Completion (p. 108)

Phlebotomist Basic - Course-Completion Certificate (p. 109)

Electrocardiogram Technician - Course-Completion Certificate (p. 110)

Pre-Surgical Technician Program (p. 110)

NA 101. Nursing Assistant Theory and Lab 6 Credits (5+3P)

Nurse aide skills with emphasis on a bio-psychosocial-cultural approach to client care. Practice of these skills is provided in the laboratory as well as at a clinical site. Successful completion of the course prepares and qualifies the student to take the NACES certification examination. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): (CCDR 110N with C or better OR appropriate placement score) and (CCDE 110N with C or better OR appropriate placement score) and (CCDM 103N with C or better OR appropriate placement score).

NA 102. Sterile Processing Technician 4 Credits (3+3P)

This course will prepare the student to work as a Sterile Processing Technician, performing critical functions that support both the hospital and Operating Room. The student will learn about infection control, instrument reprocessing, decontamination, disinfection, and sterilization. All critical aspects of sterile processing will be covered to include applicable standards and regulations. This field is constantly evolving and those desiring to work in this profession must ensure that they stay abreast of the science behind the discipline. Restricted to Community Colleges campuses

Prerequisite(s): CCDE 110 N General Composition Placement exam scores, or specific course work.

NA 104. Nursing Assistant Fundamentals 3 Credits (3)

This course prepares students for employment as a Nursing Assistant in a Long Term Care Facility. Theory and basic nursing care skills will be taught with an emphasis being placed on the psychosocial-cultural approach to client care. Students will learn communication skills, basic anatomy and physiology, growth and development, infection control, body mechanics, basic nutrition, client/resident elimination needs, the client/resident unit, vital signs, range of motion exercises, bed making, rehabilitation and restorative care, client admission and discharge, common health problems, dealing with death and dying, and basic medical terminology. NA 104 and NA 104L (laboratory) must be successfully completed with a C- or better in order to continue to NA 105 Nursing Assistant Clinical. NA 105 must also be successfully completed with a C- or better to be eligible to take the state certification competency examination. Attendance is required to meet the federal requirements for training hours and content prior to direct contact with a patient/resident and the state competency examination. Students must test out of all CCDE and CCDR courses and eligible to take ENGL 1110G to enroll in this course. Restricted to Community Colleges campuses only. Corequisite(s): NA 104 L.

NA 104 L. Nursing Assistant Fundamentals Lab 1 Credit (3P)

This course prepares students for employment as a Nursing Assistant in a Long Term Care Facility. Students will learn and demonstrate personal care skills including bathing, grooming, dressing, toileting, assisting with eating and hydration, skin care, transfers and positioning. Students will also learn and demonstrate the use of assistive devices, and how to maintain resident safety, dignity and privacy. NA 104 & NA 104L must be successfully completed with a C- or greater in order to continue to NA 105 Clinical. NA 105 must be successfully completed with a C- or greater to be eligible to take the state certification competency examination.

Prerequisite(s)/Corequisite(s): NA 104. Prerequisite(s): English COMPASS score of 35 or greater or CCDE 110N, and reading COMPASS score of 55 or greater or CCDR 105N. Restricted to Community Colleges campuses only.

NA 105. Nursing Assistant Clinicals 4 Credits (3+3P)

Extension of basic fundamentals of personal care, including theory, skills and clinical experience leading to the certified Nursing Assistant Examination at the conclusion of the semester. Continuation of NA 104. Requires a C or better to pass. Restricted to: Community Colleges only. **Prerequisite(s):** C or better in NA 104 or consent of instructor.

NA 109. Phlebotomist Basic 4 Credits (2+4P)

This course provides the latest information, techniques, skills, and equipment for blood and specimen collection based on the standards of the Clinical and Laboratory Standards Institute, Needlestick Prevention Act, Joint Commission 2008 National Patient Safety Goals, OSHA and CDC. An advanced skills lab is included in the course to provide a 'hands-on' practice experience and a 30 hour practicum in a supervised work environment collecting blood and specimens on actual patients for laboratory tests. Attendance is mandatory. Prepares students for employment as a phlebotomist in health care settings. Requires a 'C' or better to pass. Upon successful completion of the course, student has the opportunity to test for National Healthcareer Certification. Consent of Instructor required.

Prerequisite(s)/Corequisite(s): BIOL 1130 or BIOL 2225. Restricted to Community Colleges campuses only.

NA 110. Electrocardiogram Technician Basic 4 Credits (3+3P)

Prepares students for employment as an Electrocardiogram Technician. Includes basic theory of the cardiovascular system, cardiac rhythm interpretation, 12 lead ECG lead placement, and ECG equipment trouble shooting. The course includes an advanced skills laboratory for 'handson' practice and 16 hours of supervised clinical in the work environment assisting with ECG testing. Attendance is mandatory. Course requires a grade of 'C' or better to pass. Upon successful completion of course, student has the opportunity to test for National Healthcareer Certification. Restricted to Community Colleges campuses only. **Prerequisite(s):** BIOL 1130 OR BIOL 2210 & BIOL 2225.

NA 111. Alzheimer/Dementia Care Focus

3 Credits (3)

Students will learn respectful care of Alzheimer/Dementia persons while ensuring their dignity, maximizing safe independence focusing on strengths and abilities.

Prerequisite(s)/Corequisite(s): NA 104 or NA 101. Restricted to: Community Colleges only.

NA 113. Sterile Processing Practicum 5 Credits (1+4P)

This course will allow students to get hands on training in the Sterile Processing Department. They will perform critical functions learned in the Sterile Processing Technician course. They will apply principles of medical asepsis and infection control and by the end of the practicum be able to independently function in all work areas of the Sterile Processing Department. This field is constantly evolving and those desiring to work in this procession must ensure that they stay abreast of the science behind the discipline. Restricted to Community Colleges campuses Prerequisite(s)/Corequisite(s): NA 102. Prerequisite(s): CCDE 110 N.

NA 115. Phlebotomist Technician 6 Credits (3+6P)

Basic theory and skills of phlebotomy following OSHA and Center for Disease Control guidelines. Prepares students for the requirements of testing for the ASCP certification exam and employment in a healthcare organization as a phlebotomist in licensed settings. Laboratory hours include infection control skills & practice, patient assessment & teaching, and practice in venipuncture. Clinical time includes clinical laboratory processes and operations, patient assessment, venipuncture, and exposure to clinical policies and procedures. Upon successful completion students are workforce ready.

Prerequisite(s)/Corequisite(s): OEEM 101. Restricted to Community Colleges campuses only.

NA 204. Patient Care Technician 4 Credits (3+3P)

This course will prepare Certified Nursing Assistants (CNAs) to work in the acute care setting through an expansion of their existing basic skill set. Students will acquire expanded acute care skills, critical thinking skills, and knowledge in caring for patients of all ages. Currently CNA certified. Restricted to Community Colleges campuses only.

Prerequisite(s): (NA 104, NA 105, NA 109, NA 110, AHS 120, and (BIOL 1130 or (BIOL 2210 & BIOL 2225)).

Corequisite(s): NA 205.

NA 205. Patient Care Technicians Practicum 4 Credits (1+9P)

This course will prepare Certified Nursing Assistants (CNAs) to work in the acute care setting through an expansion of their existing basic skill set. Students will acquire expanded acute care skills, critical thinking skills, and knowledge in caring for patients of all ages. Students will go to acute care settings to practice newly acquired skills. Must have a 'C' or better to pass. Restricted to Community Colleges campuses only.

Prerequisite(s): (NA 104, NA 105, NA 109, NA 110, AHS 120, & (BIOL 1130 or (BIOL 2210 & BIOL 2225))) Currently CNA Certified.

Corequisite(s): NA 204.

NA 209. Phlebotomy Laboratory Technician 4 Credits (2+4P)

A continuation of NA 109, Phlebotomy Basic. This course furthers the experience, knowledge and skills of the phlebotomist by providing advanced specimen collection techniques, skills to assist with lab management, patient data processing, quality control measures, and customer service. Completion of thirty clinical hours and fifty successful venipunctures are required. Attendance in mandatory. Requires a final grade of 'C' or better to pass. Consent of Instructor required. Restricted to Community Colleges campuses

Prerequisite(s)/Corequisite(s): ENGL 1110G or ENGL 1110H or ENGL 1110M. Prerequisite(s): (BIOL 1130 or BIOL 2310 & BIOL 2225), and AHS 120, and NA 109.

NA 210. Administrative Procedures for Medical Assistants 4 Credits (4)

This course will provides students with the administrative procedures needed for a medical assistant. Skills will include creating awelcoming environment, cultural considerations, office safety, opening and closing procedures, computer operation andmanagement, written and telephonic communications, financial procedures, patient scheduling, medical record management, andmedical insurance, billing, and coding. Restricted to Community Colleges campuses

Prerequisite(s)/Corequisite(s): NA 212. Prerequisite(s): MATH 1215, and ENGL 1110G, and AHS 120, and BIOL 1130 or BIOL 2225.

NA 212. Medical Assistant Capstone Course 6 Credits (6)

This course provides the student with entry-level theory and limited 'hands-on' training in basic and routine clinical office tasks. The course will equip the Medical Assistant (MA) student with the competencies required to perform in a medical office under the direct supervision of a physician. The graduate will be able to assist the physician with physical exams, ECGs, phlebotomy, and minor surgical procedures. CNA Certification within the last 5 years.

Prerequisite(s): NA 105, NA 110, NA 109, AHS 120, BIOL 1130, BOT 208, HIT 228, HIT 248.

NA 214. Medical Assistant Practicum 6 Credits (1+6P)

This course is the practicum for NA 212 Medical Assistant Fundamentals Capstone Course. Students will prepare for a career as a medical assistant in medical offices and clinics. During practicum students will observe and participate in 180 hours in a supervised work environment using knowledge and skills learned in NA 212. This course includes weekly post-practicum conferences with the instructor. The student will be evaluated by both the employer and the instructor. Requires a 'C' or better to pass. Upon successful completion the student may be eligible to test for National Certification. Students who have been CNA Certified within the last 5 years can use this to enroll into this course. Consent of Instructor required.

Prerequisite(s)/Corequisite(s): NA 212. Prerequisite(s): NA 105, NA 110, NA 109, AHS 120, BIOL 1130, BOT 208, HIT 228, HIT 248. Restricted to Las Cruces campus only.

Name: Sheila Fetherlin, MSN RN Program Director

Email: sfetherlin@dacc.nmsu.edu

Office Location: DAHL 190/191U

Phone: (575) 527-7674

Name: Laura Jarry, BSN RN Clinical Coordinator

E-mail: ljarry@dacc.nmsu.edu

Office Location: DAHL 190/191V

Phone: (575) 528-7271

Name: Sharon Lashley, MBA BSN RN Instructor

E-mail: slashley@dacc.nmsu.edu
Office Location: DAHL 190/191W

Phone: (575) 528-7027

Website: https://dacc.nmsu.edu/hca/

Nursing Assistant - Certificate of Completion

Doña Ana Community College 2020-21 Catalog

Nursing assistants perform basic nursing functions involving patient care, working under the supervision of a registered nurse, licensed practical nurse, or physician. In general, nursing assistants attend to matters related to personal hygiene, safety, nutrition, exercise, and elimination. Maintaining patient comfort is a priority. Upon successfully completing the course, the student is eligible to take the state nursing assistant exam to become certified as a nursing assistant. Course fee:

Clinical Clearance Packet

Students registering for a course that has a clinical component (NA 105) are required to complete a <u>clinical clearance packet</u> and submit online to <u>Castlebranch</u> for the director's approval to register.

Mandatory Attendance

Students must attend all class meetings and lab sessions to be eligible for state or national certification testing. Clinical courses take place off-campus, students will need to have personal transportation.

State certification is available upon successful completion of the courses:

 State of New Mexico Department of Health (DOH) New Mexico Nurse Aide Competency Exam and Certification Management.

Contact Us

For information on this college certificate program.

(16 credit hours)

NOTE: Students must earn a final grade of C- or better in all required courses and achieve a cumulative grade-point average of at least 2.0.

Students must complete all University certificate requirements to total at least 16 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
Program Content		
AHS 120	Medical Terminology	3
NA 104	Nursing Assistant Fundamentals	3
NA 104 L	Nursing Assistant Fundamentals Lab	1
BIOL 1130G	Introductory Anatomy & Physiology (non- majors)	4
NA 105	Nursing Assistant Clinicals	4
OEEM 101	CPR for the Health Care Professional	1
Total Credits		16

2 Options/Paths Available - Consult with Financial Aid Office regarding eligibility and restrictions. (16 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must earn a final grade of C- or better in all required courses and achieve a cumulative grade-point average of at least 2.0.

Students must complete all University certificate requirements to total at least 16 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

OPTION 1:

Course	Title	Credits
Semester 1		
AHS 120	Medical Terminology	3
NA 104	Nursing Assistant Fundamentals	3
BIOL 1130G	Introductory Anatomy & Physiology (non-majors)	4
NA 104 L	Nursing Assistant Fundamentals Lab	1

NA 105	Nursing Assistant Clinicals	4
OEEM 101	CPR for the Health Care Professional	1
	Credits	16
	Total Credits	16

OPTION 2:

Course	Title	Credits
Semester 1		
AHS 120	Medical Terminology	3
OEEM 101	CPR for the Health Care Professional	1
BIOL 1130G	Introductory Anatomy & Physiology (non-majors)	4
Optional: Support Cou Academic Advisor.	rse if full-time enrollment required. Consult with	4
	Credits	12
Semester 2		
NA 104	Nursing Assistant Fundamentals	3
NA 104 L	Nursing Assistant Fundamentals Lab	1
NA 105	Nursing Assistant Clinicals	4
Optional: Support Cou Academic Advisor.	rse if full-time enrollment required. Consult with	3
Optional: Support Cou Academic Advisor.	rse if full-time enrollment required. Consult with	1
	Credits	12
	Total Credits	24

Medical Assisting - Associate of Applied Science

Doña Ana Community College 2020-21 Catalog

(67 credits)

NOTE: Students must earn a final grade of C- or better in all required courses and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Clinical Clearance Packet

Students registering for a course that has a clinical component (NA 105, NA 109, NA 110, NA 214) are required to complete a <u>clinical clearance packet</u> and submit online to <u>Castlebranch</u> for the director's approval to register.

Contact Us

For information on this degree.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 67 credits. Developmental coursework will not count towards the degree requirements and/or elective credits but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
General Education		
Select one course from 12-14 credits ^{1, 2}	four of the following six content areas for a total of	12-14

This degree requires courses from Areas I, III and IV; students must select one course from the remaining areas to complete General Education requirements

Area II: Mathematics Area III: Laboratory Sciences CHEM 1120G Introduction to Chemistry Lecture and Laboratory (non majors) Area IV: Social/Behavioral Sciences CEPY 1120G Human Growth and Behavior Area V: Humanities Area V: Creative and Fine Arts General Education Elective PHLS 1110G Personal Health & Wellness Major Requirements Technical Requirements AHS 120 Medical Terminology AHS 250 Spanish for Health Professionals HIT 248 Medical Coding I NA 104 Nursing Assistant Fundamentals BIOL 1130G Introductory Anatomy & Physiology (nonmajors) NA 104 L Nursing Assistant Fundamentals Lab NA 105 Nursing Assistant Clinicals NA 109 Phlebotomist Basic NA 110 Electrocardiogram Technician Basic NA 212 Medical Assistant Capstone Course NA 214 Medical Assistant Practicum OATS 208 Medical Insurance Billing Choose one of the following: AHS 116 Math for Health Occupations MATH 1215 Intermediate Algebra	Total Credits		67
Area III: Mathematics Area III: Laboratory Sciences CHEM 1120G Introduction to Chemistry Lecture and Laboratory (non majors) 3 Area IV: Social/Behavioral Sciences CEPY 1120G Human Growth and Behavior 3 Area V: Humanities Area VI: Creative and Fine Arts General Education Elective PHLS 1110G Personal Health & Wellness 3 Major Requirements Technical Requirements AHS 120 Medical Terminology AHS 250 Spanish for Health Professionals HIT 248 Medical Coding I NA 104 Nursing Assistant Fundamentals BIOL 1130G Introductory Anatomy & Physiology (nonmajors) NA 104 L Nursing Assistant Fundamentals Lab NA 105 Nursing Assistant Clinicals NA 109 Phlebotomist Basic NA 110 Electrocardiogram Technician Basic NA 212 Medical Assistant Practicum OATS 208 Medical Insurance Billing Choose one of the following:	MATH 1215	Intermediate Algebra	
Area III: Mathematics Area IIII: Laboratory Sciences CHEM 1120G Introduction to Chemistry Lecture and Laboratory (non majors) Area IV: Social/Behavioral Sciences CEPY 1120G Human Growth and Behavior Area V: Humanities Area VI: Creative and Fine Arts General Education Elective PHLS 1110G Personal Health & Wellness Major Requirements Technical Requirements Technical Requirements AHS 120 Medical Terminology AHS 250 Spanish for Health Professionals HIT 248 Medical Coding I NA 104 Nursing Assistant Fundamentals BIOL 1130G Introductory Anatomy & Physiology (nonmajors) NA 104 L Nursing Assistant Fundamentals Lab NA 105 Nursing Assistant Clinicals NA 109 Phlebotomist Basic NA 109 Phlebotomist Basic NA 110 Electrocardiogram Technician Basic NA 212 Medical Assistant Practicum OATS 208 Medical Office Procedures OATS 228 Medical Insurance Billing	AHS 116	Math for Health Occupations	
Area II: Mathematics Area III: Laboratory Sciences CHEM 1120G Introduction to Chemistry Lecture and Laboratory (non majors) Introduction to Chemistry Lecture and Laboratory (non majors) Area IV: Social/Behavioral Sciences CEPY 1120G Human Growth and Behavior Area V: Humanities Area V: Humanities Area V: Creative and Fine Arts General Education Elective PHLS 1110G Personal Health & Wellness Major Requirements Technical Requirements AHS 120 Medical Terminology AHS 250 Spanish for Health Professionals HIT 248 Medical Coding I NA 104 Nursing Assistant Fundamentals BIOL 1130G Introductory Anatomy & Physiology (nonmajors) NA 104 L Nursing Assistant Fundamentals Lab NA 105 Nursing Assistant Clinicals NA 109 Phlebotomist Basic NA 110 Electrocardiogram Technician Basic NA 212 Medical Assistant Capstone Course NA 214 Medical Office Procedures	Choose one of the fo	lowing:	3
Area III: Laboratory Sciences CHEM 1120G Introduction to Chemistry Lecture and Laboratory (non majors) 3 Area IV: Social/Behavioral Sciences CEPY 1120G Human Growth and Behavior 3 Area V: Humanities Area VI: Creative and Fine Arts General Education Elective PHLS 1110G Personal Health & Wellness 3 Major Requirements Technical Requirements AHS 120 Medical Terminology AHS 250 Spanish for Health Professionals HIT 248 Medical Coding I NA 104 Nursing Assistant Fundamentals BIOL 1130G Introductory Anatomy & Physiology (nonmajors) NA 104 L Nursing Assistant Fundamentals Lab NA 105 Nursing Assistant Clinicals NA 109 Phlebotomist Basic NA 110 Electrocardiogram Technician Basic NA 212 Medical Assistant Practicum	OATS 228	Medical Insurance Billing	3
Area III: Laboratory Sciences CHEM 1120G Introduction to Chemistry Lecture and Laboratory (non majors) 3 Area IV: Social/Behavioral Sciences CEPY 1120G Human Growth and Behavior 3 Area V: Humanities Area VI: Creative and Fine Arts General Education Elective PHLS 1110G Personal Health & Wellness 3 Major Requirements Technical Requirements AHS 120 Medical Terminology AHS 250 Spanish for Health Professionals HIT 248 Medical Coding I NA 104 Nursing Assistant Fundamentals BIOL 1130G Introductory Anatomy & Physiology (nonmajors) NA 104 L Nursing Assistant Fundamentals Lab NA 105 Nursing Assistant Clinicals NA 109 Phlebotomist Basic NA 110 Electrocardiogram Technician Basic NA 212 Medical Assistant Capstone Course	OATS 208	Medical Office Procedures	3
Area III: Mathematics Area III: Laboratory Sciences CHEM 1120G Introduction to Chemistry Lecture and Laboratory (non majors) 3 Area IV: Social/Behavioral Sciences CEPY 1120G Human Growth and Behavior 3 Area V: Humanities Area VI: Creative and Fine Arts General Education Elective PHLS 1110G Personal Health & Wellness 3 Major Requirements Technical Requirements AHS 120 Medical Terminology AHS 250 Spanish for Health Professionals HIT 248 Medical Coding I NA 104 Nursing Assistant Fundamentals BIOL 1130G Introductory Anatomy & Physiology (nonmajors) NA 104 L Nursing Assistant Fundamentals Lab NA 105 Nursing Assistant Clinicals NA 109 Phlebotomist Basic NA 110 Electrocardiogram Technician Basic	NA 214	Medical Assistant Practicum	6
Area II: Mathematics Area III: Laboratory Sciences CHEM 1120G Introduction to Chemistry Lecture and Laboratory (non majors) 3 Area IV: Social/Behavioral Sciences CEPY 1120G Human Growth and Behavior 3 Area V: Humanities Area VI: Creative and Fine Arts General Education Elective PHLS 1110G Personal Health & Wellness 3 Major Requirements Technical Requirements AHS 120 Medical Terminology AHS 250 Spanish for Health Professionals HIT 248 Medical Coding I NA 104 Nursing Assistant Fundamentals BIOL 1130G Introductory Anatomy & Physiology (nonmajors) NA 104 Nursing Assistant Fundamentals Lab NA 105 Nursing Assistant Clinicals NA 109 Phlebotomist Basic	NA 212	Medical Assistant Capstone Course	e
Area III: Mathematics Area III: Laboratory Sciences CHEM 1120G	NA 110	Electrocardiogram Technician Basic	4
Area III: Mathematics Area III: Laboratory Sciences CHEM 1120G Introduction to Chemistry Lecture and Laboratory (non majors) 3 Area IV: Social/Behavioral Sciences CEPY 1120G Human Growth and Behavior 3 Area V: Humanities Area VI: Creative and Fine Arts General Education Elective PHLS 1110G Personal Health & Wellness 3 Major Requirements Technical Requirements AHS 120 Medical Terminology AHS 250 Spanish for Health Professionals HIT 248 Medical Coding I NA 104 Nursing Assistant Fundamentals BIOL 1130G Introductory Anatomy & Physiology (non-majors) NA 104 L Nursing Assistant Fundamentals Lab	NA 109	Phlebotomist Basic	4
Area II: Mathematics Area III: Laboratory Sciences CHEM 1120G Introduction to Chemistry Lecture and Laboratory (non majors) 3 Area IV: Social/Behavioral Sciences CEPY 1120G Human Growth and Behavior 3 Area V: Humanities Area VI: Creative and Fine Arts General Education Elective PHLS 1110G Personal Health & Wellness 3 Major Requirements Technical Requirements AHS 120 Medical Terminology AHS 250 Spanish for Health Professionals HIT 248 Medical Coding I NA 104 Nursing Assistant Fundamentals BIOL 1130G Introductory Anatomy & Physiology (non-majors)	NA 105	Nursing Assistant Clinicals	4
Area II: Mathematics Area III: Laboratory Sciences CHEM 1120G Introduction to Chemistry Lecture and Laboratory (non majors) 3 Area IV: Social/Behavioral Sciences CEPY 1120G Human Growth and Behavior 3 Area V: Humanities Area VI: Creative and Fine Arts General Education Elective PHLS 1110G Personal Health & Wellness 3 Major Requirements Technical Requirements AHS 120 Medical Terminology AHS 250 Spanish for Health Professionals HIT 248 Medical Coding I NA 104 Nursing Assistant Fundamentals BIOL 1130G Introductory Anatomy & Physiology (non-	NA 104 L		1
Area II: Mathematics Area III: Laboratory Sciences CHEM 1120G Introduction to Chemistry Lecture and Laboratory (non majors) Area IV: Social/Behavioral Sciences CEPY 1120G Human Growth and Behavior Area V: Humanities Area VI: Creative and Fine Arts General Education Elective PHLS 1110G Personal Health & Wellness Major Requirements Technical Requirements AHS 120 Medical Terminology AHS 250 Spanish for Health Professionals HIT 248 Medical Coding I	BIOL 1130G	, , , , , , , , , , , , , , , , , , , ,	4
Area II: Mathematics Area III: Laboratory Sciences CHEM 1120G Introduction to Chemistry Lecture and Laboratory (non majors) Area IV: Social/Behavioral Sciences CEPY 1120G Human Growth and Behavior Area V: Humanities Area VI: Creative and Fine Arts General Education Elective PHLS 1110G Personal Health & Wellness Major Requirements Technical Requirements AHS 120 Medical Terminology AHS 250 Spanish for Health Professionals	NA 104	Nursing Assistant Fundamentals	3
Area II: Mathematics Area III: Laboratory Sciences CHEM 1120G Introduction to Chemistry Lecture and Laboratory (non majors) Area IV: Social/Behavioral Sciences CEPY 1120G Human Growth and Behavior Area V: Humanities Area V: Creative and Fine Arts General Education Elective PHLS 1110G Personal Health & Wellness Major Requirements Technical Requirements AHS 120 Medical Terminology	HIT 248	Medical Coding I	3
Area II: Mathematics Area III: Laboratory Sciences CHEM 1120G Introduction to Chemistry Lecture and Laboratory (non majors) 3 Area IV: Social/Behavioral Sciences CEPY 1120G Human Growth and Behavior 3 Area V: Humanities Area VI: Creative and Fine Arts General Education Elective PHLS 1110G Personal Health & Wellness 3 Major Requirements Technical Requirements	AHS 250	Spanish for Health Professionals	3
Area II: Mathematics Area III: Laboratory Sciences CHEM 1120G Introduction to Chemistry Lecture and Laboratory (non majors) 3 Area IV: Social/Behavioral Sciences CEPY 1120G Human Growth and Behavior 3 Area V: Humanities Area VI: Creative and Fine Arts General Education Elective PHLS 1110G Personal Health & Wellness 3 Major Requirements	AHS 120	Medical Terminology	3
Area II: Mathematics Area III: Laboratory Sciences CHEM 1120G Introduction to Chemistry Lecture and Laboratory (non majors) 3 Area IV: Social/Behavioral Sciences CEPY 1120G Human Growth and Behavior 3 Area V: Humanities Area VI: Creative and Fine Arts General Education Elective PHLS 1110G Personal Health & Wellness 3	Technical Requirement	ts	
Area II: Mathematics Area III: Laboratory Sciences CHEM 1120G Introduction to Chemistry Lecture and Laboratory (non majors) Area IV: Social/Behavioral Sciences CEPY 1120G Human Growth and Behavior Area V: Humanities Area VI: Creative and Fine Arts General Education Elective	Major Requirements		
Area II: Mathematics Area III: Laboratory Sciences CHEM 1120G Introduction to Chemistry Lecture and Laboratory (non majors) Area IV: Social/Behavioral Sciences CEPY 1120G Human Growth and Behavior Area V: Humanities Area VI: Creative and Fine Arts	PHLS 1110G	Personal Health & Wellness ³	3
Area II: Mathematics Area III: Laboratory Sciences CHEM 1120G Introduction to Chemistry Lecture and Laboratory (non majors) Area IV: Social/Behavioral Sciences CEPY 1120G Human Growth and Behavior Area V: Humanities	General Education Ele	ctive	
Area II: Mathematics Area III: Laboratory Sciences CHEM 1120G Introduction to Chemistry Lecture and Laboratory (non majors) Area IV: Social/Behavioral Sciences CEPY 1120G Human Growth and Behavior Area IV: Mathematics Area IV: Social/Behavioral Sciences	Area VI: Creative a	nd Fine Arts	
Area II: Mathematics Area III: Laboratory Sciences CHEM 1120G Introduction to Chemistry Lecture and Laboratory (non majors) Area IV: Social/Behavioral Sciences	Area V: Humanitie		
Area II: Mathematics Area III: Laboratory Sciences CHEM 1120G Introduction to Chemistry Lecture and Laboratory (non majors) 3			
Area II: Mathematics Area III: Laboratory Sciences CHEM 1120G Introduction to Chemistry Lecture and	Area IV: Social/Be		
Area II: Mathematics		Introduction to Chemistry Lecture and	
	Area III: Laborato	y Sciences	
ENGLITIUG Composition I	Area II: Mathemat		
5NO. 11100 0 11 13	ENGL 1110G	Composition I ³	
Education requirements Area I: Communications	•		

- Each course selected must be from a different area and students cannot take multiple courses in the same area.
- See the <u>General Education</u> (p. 52) section of the catalog for a full list of courses.
- Courses are identical to those offered at New Mexico State University Las Cruces (main) Campus.

(67-68 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must earn a final grade of C- or better in all required courses and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at

least 67 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course Semester 1	Title	Credits
FALL	Familiah Osana saikian Laval 1	4
	ons - English Composition Level 1	4
ENGL 1110G	Composition I	0
AHS 120	Medical Terminology	3
NA 104	Nursing Assistant Fundamentals	3
NA 104 L	Nursing Assistant Fundamentals Lab	1
NA 105	Nursing Assistant Clinicals	4
Semester 2 SPRING	Credits	15
Area IV: Social/Beha	vioral Sciences	3
CEPY 1120G	Human Growth and Behavior	
AHS 250	Spanish for Health Professionals	3
OATS 208	Medical Office Procedures	3
BIOL 1130G	Introductory Anatomy & Physiology (non- majors)	4
OATS 228	Medical Insurance Billing	3
Semester 3 SUMMER NA 109	Phlebotomist Basic	4
10.7.103	Credits	4
Semester 4	orcano	7
FALL		
AHS 116 or MATH 1215	Math for Health Occupations or Intermediate Algebra	3
HIT 248	Medical Coding I	3
NA 110	Electrocardiogram Technician Basic	4
NA 212	Medical Assistant Capstone Course	6
	Credits	16
Semester 5		
SPRING		
Area III: Laboratory S	Sciences	4
CHEM 1120G	Introduction to Chemistry Lecture and Laboratory (non majors)	
General Education El	lective - Area IV: Social/Behavioral Sciences	3
PHLS 1110G	Personal Health & Wellness	
	Choose one course from one of the NM General ents Areas II, V, or VI in the NMSU/DACC Catalog.	3-4
NA 214	Medical Assistant Practicum	6
	Credits	16-17
	Total Credits	67-68

Patient Care Technician - Certificate of Completion

Doña Ana Community College 2020-21 Catalog

Certificate of Completion

Graduates of the Patient Care Technician certificate program may work in a variety of settings, including long-term and acute-care facilities, private homes, clinics, and home care agencies. In most cases, the work involves providing personal care for patients and support services such as drawing blood, operating specialized equipment, and furnishing the results of diagnostic procedures.

Employment opportunities are numerous in Doña Ana County and the surrounding areas. Salaries for those who have completed diverse competencies within the program average well above minimum wage. Once employed, many graduates will find opportunities for on-the-job training and advancement.

Students may use the program as an introduction to other healthcare programs, such as nursing, respiratory therapy, diagnostic medical sonography, and radiologic technology. The program includes classroom theory, laboratory experience, and applied learning in clinical settings. Because some of the learning takes place off-campus, students will need to have reliable personal transportation.

State and/or national certifications are available in certain areas upon successful completion of the courses:

- State of New Mexico Department of Health (DOH) New Mexico Nurse Aide Competency Exam and Certification Management.
- · National Healthcareer Association
 - · Phlebotomy
 - · ECG Technician
 - · Patient Care Technician certification

Important Facts About This Certificate Program

For information concerning the total cost, financing, time to completion, and job placement rates associated with this program, visit the following web page: https://dacc.nmsu.edu/vd/GEI/DA-OHCA-CT/Gedt.html

Clinical Clearance Packet

Students registering for a course that has a clinical component (NA 105, NA 109, NA 110, NA 205) are required to complete a <u>clinical clearance packet</u> and submit online to <u>Castlebranch</u> for the director's approval to register.

Mandatory Attendance

Students must attend all class meetings and lab sessions to be eligible for state or national certification testing.

Patient Care Technician (38-42 credits)

NOTE: Students must earn a final grade of C- or better in all required courses and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 38 credits. Developmental coursework will not count towards the degree requirements and/or elective credits but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
Core Requirements	(7 credits)	
ENGL 1110G	Composition I 1, 2	4
MATH 1215	Intermediate Algebra ^{1, 2}	3
or AHS 116	Math for Health Occupations	
Related Requireme	nts (7-11 credits)	
AHS 120	Medical Terminology	3
Choose from the fo	llowing:	4-8
BIOL 2210 & BIOL 2225	Human Anatomy and Physiology I for the Health Sciences	
	and Human Anatomy and Physiology II	
BIOL 1130G	Introductory Anatomy & Physiology (non- majors)	
Technical Requirem	nents (24 credits)	
NA 104	Nursing Assistant Fundamentals ²	3
NA 104 L	Nursing Assistant Fundamentals Lab ²	1
NA 105	Nursing Assistant Clinicals ²	4
NA 109	Phlebotomist Basic ²	4
NA 110	Electrocardiogram Technician Basic 2	4
NA 204	Patient Care Technician ²	4
NA 205	Patient Care Technicians Practicum ²	4
Total Credits		38-42

- Courses identical to those offered at New Mexico State University (main) Campus.
- Course has a prerequisite. Please consult DACC catalog for more information.

(38-42 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must earn a final grade of C- or better in all required courses and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University certificate requirements, which include: General Education requirements and elective credits to total at least 38 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course	Title	Credits
Semester 1		
Area I: Communicat	ions - English Composition Level 1	4
ENGL 1110G	Composition I	
AHS 120	Medical Terminology	3
MATH 1215 or AHS 116	Intermediate Algebra or Math for Health Occupations	3
Choose one from th	e following:	4-8
BIOL 2210 & BIOL 2225	Human Anatomy and Physiology I for the Health Sciences and Human Anatomy and Physiology II ¹	

BIOL 1130G	Introductory Anatomy & Physiology (non- majors)	
	Credits	14-18
Semester 2		
NA 104	Nursing Assistant Fundamentals	3
NA 104 L	Nursing Assistant Fundamentals Lab	1
NA 105	Nursing Assistant Clinicals	4
NA 109	Phlebotomist Basic	4
NA 110	Electrocardiogram Technician Basic	4
	Credits	16
Semester 3		
NA 204	Patient Care Technician	4
NA 205	Patient Care Technicians Practicum	4
	Credits	8
	Total Credits	38-42

BIOL 2210 & BIOL 2225 option will need to be taken in separate semesters.

Phlebotomist - Course Completion Certificate

Doña Ana Community College 2020-21 Catalog

(one semester - 4 credit hours)

A phlebotomist is a Healthcare Professional that specializes in extracting blood for analysis from patients. Phlebotomists work hand in hand with other Laboratory clinicians in assisting physicians in the diagnosing of diseases and/or disorders. Students are required to complete 30 clinical hours and 50 successful venipunctures. Clinical hours are scheduled individually and separately from class time at laboratory sites. Upon successfully completing the course, the student is eligible to take the NHA national exam to become certified as a phlebotomy technician. Prerequisite or Corequisite: BIOL 1130G Introductory Anatomy & Physiology (non-majors)

NOTE: Students must earn a final grade of C- or better in all required courses and achieve a cumulative grade-point average of at least 2.0.

Prefix	Title	Credits
NA 109	Phlebotomist Basic	4
Total Credits		4

(one semester - 4 credit hours)

A Suggested Plan of Study

A phlebotomist is a Healthcare Professional that specializes in extracting blood for analysis from patients. Phlebotomists work hand in hand with other Laboratory clinicians in assisting physicians in the diagnosing of diseases and/or disorders. Students are required to complete 30 clinical hours and 50 successful venipunctures. Clinical hours are scheduled individually and separately from class time at laboratory sites. Upon successfully completing the course, the student is eligible to take the NHA national exam to become certified as a phlebotomy technician. Prerequisite or Corequisite: BIOL 1130G Introductory Anatomy & Physiology (non-majors)

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of

study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must earn a final grade of C- or better in all required courses and achieve a cumulative grade-point average of at least 2.0.

Students must complete all University certificate requirements to total at least 4 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course	Title	Credits
Semester 1		
NA 109	Phlebotomist Basic	4
	Credits	4
	Total Credits	4

Electrocardiogram Technician - Course Completion Certificate

Doña Ana Community College 2020-21 Catalog

(one semester – 4 credit hours)

ECG technician students are trained with 12 lead ECGs, which are tracings of the electrical impulses transmitted by the heart. The technician attaches electrodes to the patient in the correct anatomical location and then operates the ECG machine to obtain a clear and accurate reading. A qualified medical physician then interprets the ECG reading. Graduates can also find employment observing and checking the quality of ECG rhythms on a continuous monitor in hospitals. Graduates may also work in clinics or hospitals preparing, observing, and providing post-care for patients having various cardiac test including stress testing and Holter monitoring. Upon successfully completing this course, students are eligible to take the NHA national exam to become certified electrocardiogram technicians. Pre-requisite: BIOL 1130G Introductory Anatomy & Physiology (non-majors)

NOTE: Students must earn a final grade of C- or better in all required courses and achieve a cumulative grade-point average of at least 2.0.

Prefix	Title	Credits
NA 110	Electrocardiogram Technician Basic	4
Total Credits		4

(one semester — 4 credit hours) A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must earn a final grade of C- or better in all required courses and achieve a cumulative grade-point average of at least 2.0.

Students must complete all University certificate requirements to total at least 4 credits. Developmental coursework will not count towards the

degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

ECG technician students are trained with 12 lead ECGs, which are tracings of the electrical impulses transmitted by the heart. The technician attaches electrodes to the patient in the correct anatomical location and then operates the ECG machine to obtain a clear and accurate reading. A qualified medical physician then interprets the ECG reading. Graduates can also find employment observing and checking the quality of ECG rhythms on a continuous monitor in hospitals. Graduates may also work in clinics or hospitals preparing, observing, and providing post-care for patients having various cardiac test including stress testing and Holter monitoring. Upon successfully completing this course, students are eligible to take the NHA national exam to become certified electrocardiogram technicians. Pre-requisite: BIOL 1130G Introductory Anatomy & Physiology (non-majors)

Course	Title	Credits
Semester 1		
NA 110	Electrocardiogram Technician Basic	4
	Credits	4
	Total Credits	4

Pre-Surgical Technician Program Doña Ana Community College 2020-21 Catalog

Important information about the educational debt, earnings, and completion rates of students who attend this program can be found on the following https://dacc.nmsu.edu/qainfulemployment/.

(35 credits)

The Surgical Technology program is a collaborative effort between San Juan College (SJC) and Doña Ana Community College (DACC) to offer the Surgical Technologist program of study to students in Southern New Mexico. Prerequisite coursework will first be completed at DACC once all prerequisite work is completed, students will apply for admission to the SJC Surgical Technology program. Admitted students will complete courses online through San Juan College. Hands-on lab sections and clinical requirements will take place in the student's hometown area with employer partners with SJC who have agreed to provide their healthcare organizations as a clinical site.

NOTE: Students must earn a final grade of C- or better in all required courses and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University certificate requirements, which include: General Education requirements and elective credits to total at least 35 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
General Education		
Area I: Communicati	ons - English Composition Level 1	4
ENGL 1110G	Composition I	
Area I: Communicati	ons - English Composition Level 2	3
ENGL 2210G	Professional & Technical Communication	

or ENGL 2221G	Writing in the Humanities and Social Science	
Area I: Communicatio	ns - Oral Communications	3
COMM 1115G	Introduction to Communication	
or COMM 1130	G Public Speaking	
Area III: Laboratory Sc	eiences	4
BIOL 1120G & BIOL 1120L	Human Biology and Human Biology Laboratory	
Area IV: Social/Behavi	oral Sciences	3
PSYC 1110G	Introduction to Psychology	
Technical Requiremen	its	
AHS 120	Medical Terminology	3
BIOL 2310 & 2310L	Microbiology and Microbiology Lab	4
BIOL 2210	Human Anatomy and Physiology I for the Health Sciences	4
BIOL 2225	Human Anatomy and Physiology II	4
AHS 116	Math for Health Occupations	3
or MATH 1215	Intermediate Algebra	
or MATH 1220G	College Algebra	
Total Credits		35

Important information about the educational debt, earnings, and completion rates of students who attend this program can be found on the following https://dacc.nmsu.edu/gainfulemployment/.

(35 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must earn a final grade of C- or better in all required courses and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University certificate requirements, which include: General Education requirements and elective credits to total at least 35 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course	Title	Credits
Semester 1		
Area I: Communication	ons - English Composition Level 1	4
ENGL 1110G	Composition I	
Area I: Communication	ons - Oral Communications	3
COMM 1115G or COMM 1130	Introduction to Communication IG or Public Speaking	
Area III: Laboratory S	ciences	4
BIOL 1120G & BIOL 1120L	Human Biology and Human Biology Laboratory	
	Credits	11
Semester 2		
Area I: Communication	ons - English Composition Level 2	3
ENGL 2210G or ENGL 22210	Professional & Technical Communication or Writing in the Humanities and Social Science	

Area IVA Casial/Dahayi	aral Caianaga	3
Area IV: Social/Behavioral Sciences		3
PSYC 1110G	Introduction to Psychology	
BIOL 2210	Human Anatomy and Physiology I for the Health Sciences	4
BIOL 2310	Microbiology	4
& 2310L	and Microbiology Lab	
	Credits	14
Semester 3		
AHS 116	Math for Health Occupations	3
or MATH 1215	or Intermediate Algebra	
or MATH 1220G	or College Algebra	
AHS 120	Medical Terminology	3
BIOL 2225	Human Anatomy and Physiology II	4
	Credits	10
	Total Credits	35

Academic Advisor

Marty G. Brooks (mabrooks@dacc.nmsu.edu) (575) 527-7683 or Academic Advising Centers

Pre-Surgical Technician program advisors

Contact Us Form

<u>Sharon Lashley (slashley@nmsu.edu)</u> MBA RN, Instructor 575-528-7027

<u>Laura Jarry (ljarry@nmsu.edu)</u> BSN RN, Clinical Coordinator, Associate Professor, 575-528-7217

Sheila Fetherlin (sheilaf@nmsu.edu) MSN RN, Program Director, Associate Professor

San Juan College Contact Information

Surgical Technology home page

TEAS Testing information

<u>Surgical Technology program application</u> after completion of all prerequisites, and TEAS testing. Application due in April classes begin in August

Maxine Chapman, San Juan College Surgical Technology Director, 505-566-3492 or chapmanm@sanjuancollege.edu.

Associate in General Studies

Associate in General Studies Degree

(575) 527-7519

The Associate in General Studies degree program is intended for those wishing to tailor an associate degree to their own specific needs. It allows students to include courses from a variety of program areas. It is not intended, however, to be a substitute for the Associate of Arts or Associate of Science degree programs, which prepare students for transfer to bachelor's degree programs.

Students who have previously earned an associate degree from DACC or from any other institution are ineligible to receive the Associate in General Studies degree. Similarly, the Associate in General Studies degree will not be awarded concurrently with any other associate degree offered by DACC.

Requirements for this degree are as follows:

- Complete a total of 66 credit hours (excludes noncredit courses, such as those with an "N" suffix);
- Complete English and mathematics basic skills (See <u>Basic Academic Skills for Associate Degree</u> (p. 27));
- 3. Achieve a 2.0 cumulative GPA; and
- Residency A minimum of 15 of the total degree credits for the associate's degree must be completed at DACC, or any other NMSU campus.

Under the SOCAD agreement, military personnel and their families are exempt from the requirements described in item 4 above.

Name: Brad Mazdra, Director of Academic Advising

Office Location: DASR 103D Phone: (575) 527-7519

Website: http://dacc.nmsu.edu/ags/

Associate of Arts Doña Ana Community College 2020-21 Catalog

Associate of Arts Degree

The Associate of Arts degree allows students to complete many of the general education requirements for a bachelor's degree while still at Doña Ana Community College. Students should take electives that apply toward the requirements of their chosen bachelor's degree.

Associate of Arts (60 credits)

Students must complete 60 credits with a minimum GPA of 2.0. A minimum of 15 of the total degree credits for the associate's degree must be completed at DACC, or any other NMSU campus. The New Mexico General Education Requirements (p. 52) can be found in the section titled, "Transfer Among New Mexico Institutions of Higher Education'.

NOTE: Not all General Education ('G') courses listed below are taught at DACC. Please check DACC's current schedule for actual course offerings.

A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Prefix	Title	Credits
Area I: Communications	- Select one course from each sub group. ¹	10
English Composition Lev	rel 1	
ENGL 1110G	Composition I ²	
	ew Mexico General Education Area I course ne current DACC/NMSU Catalog	
English Composition Lev	rel 2 - Choose one from the following:	
ENGL 2210G	Professional & Technical Communication	
ENGL 2221G	Writing in the Humanities and Social Science	
	ew Mexico General Education Area I course ne current DACC/NMSU Catalog	
Oral Communication		
COMM 1130G	Public Speaking	
or COMM 1115G	Introduction to Communication	

or other approved New Mexico General Education Area I course listed in Oral Communication in the current DACC/NMSU Catalog

listed in Oral Communication in the current DACC/NMSU Catalog			
Area II: Mathematics - Choose one from the following:			
MATH 1130G	Survey of Mathematics ³		
MATH 1220G	College Algebra		
MATH 1350G	Introduction to Statistics		
	New Mexico General Education Area II course nt DACC/NMSU Catalog		
	Sciences and Social/Behavioral Sciences	10-11	
,	ry Sciences and Area IV: Social/Behavioral		
7 credits. Students w	ust take one course from each area for a total of ill then take an additional course in either Area III lits depending on the students selection (i.e. Area / is 3 credits).		
Area III: Laborator	y Sciences (4 credits)		
ASTR 1115G	Introduction Astro (lec+lab)		
ASTR 1120G	The Planets		
BIOL 1120G	Human Biology		
& BIOL 1120L	and Human Biology Laboratory		
BIOL 2110G & BIOL 2110L	Principles of Biology: Cellular and Molecular Biology and Principles of Biology: Cellular and		
BIOL 2610G	Molecular Biology Laboratory		
& BIOL 2610L	Principles of Biology: Biodiversity, Ecology, and Evolution		
	and Principles of Biology: Biodiversity, Ecology, and Evolution Laboratory		
C S 171G	Introduction to Computer Science		
CHEM 1120G	Introduction to Chemistry Lecture and Laboratory (non majors)		
CHEM 1215G	General Chemistry I Lecture and Laboratory for STEM Majors		
CHEM 1225G	General Chemistry II Lecture and Laboratory for STEM Majors		
GEOG 1110G	Physical Geography		
GEOL 1110G	Physical Geology		
PHYS 1115G	Survey of Physics with Lab		
PHYS 1125G	Physics of Music		
PHYS 1230G & PHYS 1230L	Algebra-Based Physics I and Algebra-Based Physics I Lab		
PHYS 1240G & PHYS 1240L	Algebra-Based Physics II and Algebra-Based Physics II Lab		
PHYS 1310G & PHYS 1310L	Calculus -Based Physics I and Calculus -Based Physics I Lab		
PHYS 1320G & PHYS 1320L	Calculus -Based Physics II and Calculus -Based Physics II Lab		
or other Approved listed in the currer	New Mexico General Education Area III course at NMSU Catalog		
Area IV: Social/Bel	havioral Sciences (3 credits)		
ANTH 1115G	Introduction to Anthropology		
ANTH 1137G	Human Ancestors		
ANTH 1140G	Introduction to Cultural Anthropology		
ANTH 1160G	World Archaeology		
CEPY 1120G	Human Growth and Behavior		
CJUS 1110G	Introduction to Criminal Justice		
ECON 1110G	Survey of Economics		
ECON 2110G	Macroeconomic Principles		
ECON 2120G	Microeconomics Principles		
GEOR 1120G	Hilman Goography		

GEOG 1130G

POLS 1110G

Human Geography

Introduction to Political Science

POLS 1120G	American National Government	
JOUR 105G	Media and Society	
LING 2110G	Introduction to the Study of Language and Linguistics	
PHLS 1110G	Personal Health & Wellness	
PSYC 1110G	Introduction to Psychology	
SOWK 2110G	Introduction to Human Services & Social Work	
SOCI 1110G	Introduction to Sociology	
SOCI 2310G	Contemporary Social Problems	
GNDR 2110G	Introduction to Women, Gender, and Sexuality Studies	
GNDR 2120G	Representing Women Across Cultures	
• • •	New Mexico General Education Area IV course t DACC/NMSU Catalog	
Either an Area III/IV Sciences Course (4	/: Laboratory Sciences or Social/Behavioral	
Area V: Humanities - Ch	oose one from the following:	3
ENGL 2310G	Introduction to Creative Writing	
ENGL 2520G	Film as Literature	
ENGL 2650G	World Literature I	
HIST 1105G	Making History	
HIST 1110G	United States History I	
HIST 1120G	United States History II	
HIST 1130G	World History I	
HIST 1140G	World History II	
HIST 1150G	Western Civilization I	
HIST 1160G	Western Civilization II	
PHIL 1115G	Introduction to Philosophy	
PHIL 1120G	Logic, Reasoning, & Critical Thinking	
PHIL 1140G	Quest for God	
PHIL 1145G	Philosophy, Law, and Ethics	
PHIL 2110G	Introduction to Ethics	
PHIL 2230G	Philosophical Thought	
	New Mexico General Education Area V course t DACC/NMSU Catalog	
Area VI: Creative and Fi	ne Arts - Choose one from the following:	3
ARTH 1115G	Orientation in Art	
ARTH 2110G	History of Art I	
ARTH 2120G	History of Art II	
ARTS 1145G	Visual Concepts	
MUSC 1110G	Music Appreciation: Jazz	
MUSC 1130G	Music Appreciation: Western Music	
THEA 1110G	Introduction to Theatre	
	New Mexico General Education Area VI course t DACC/NMSU Catalog	
General Education Elect	_	3
Electives, to bring the to		28
Total Credits		60-61
rotal Orcuits		00-01

- Students with Area I transfer credits may sometimes complete this requirement with 9 credits.
- Must complete with a C- or better.
- May not apply to all NMSU B.A. degree programs.

- In order to complete the General Education Requirements, students must take an elective course for 3-4 credits. This course can be any course in any area, excluding Area I: Communications and any crosslisted courses that exceeds the minimum requirement. The elective course must have the 'G' distinction. See the <u>General Education</u> (p. 52) section of the catalog for a full list of courses.
- Credits may vary based on prerequisites, dual credit, or AP credit. The amount indicated in the requirements list is the amount needed to bring the total to 60 credits and may appear in variable form based on the degree. However students may end up needing to complete more or less on a case-by-case basis. Electives should be selected in consultation with an academic advisor, the NMSU Catalog and the bachelor's degree requirements to ensure course transfer. Second language courses are recommended if they are required by the intended bachelor's degree.
- Nine or more credits, all under one prefix, may be substituted for a single general education (G) course with the same prefix.

 For example, ARTS 1610 Drawing I, ARTS 1240 Design I, ARTS 1250 Design II (totaling 9 credits) could be used in place of the general education course, ARTH 1115G in the NMSU system.

(60-62 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

Students must complete at least 60 credits with a minimum GPA of 2.0. A minimum of 15 of the total degree credits for the associate's degree must be completed at DACC, or any other NMSU campus. The New Mexico General Education Requirements (p. 52) can be found in the section titled, "Transfer Among New Mexico Institutions of Higher Education'.

NOTE: Not all General Education ('G') courses listed below are taught at DACC. Please check DACC's current schedule for actual course offerings.

A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Co	Course Title		Credits
Se	emester 1		
Area I: Communications - English Compostion Level 1			4
	ENGL 1110G	Composition I	
	Or other approved N Level 1 in the NMSU	NM General Education Area I course listed in J/DACC Catalog	
ıA	ea II: Mathematics -	Choose one from the following:	3
	MATH 1130G	Survey of Mathematics	
	NOTE: MATH 11300	G may not apply to all NMSU BA programs.	
	MATH 1220G	College Algebra	
	MATH 1350G	Introduction to Statistics	
	Or other approved NMSU/DACC Catalo	NM General Education Area II course listed in the og.	
ıA	ea IV: Social/Behavio	oral Sciences - Choose one from the following:	3
	ANTH 1115G	Introduction to Anthropology	
	ANTH 1137G	Human Ancestors	
	ANTH 1140G	Introduction to Cultural Anthropology	
	ANTH 1160G	World Archaeology	
	CEPY 1120G	Human Growth and Behavior	

CJUS 1110G	Introduction to Criminal Justice	
ECON 1110G	Survey of Economics	
ECON 2110G	Macroeconomic Principles	
ECON 2120G	Microeconomics Principles	
GEOG 1130G	Human Geography	
GNDR 2110G	Introduction to Women, Gender, and Sexuality Studies	
GNDR 2120G	Representing Women Across Cultures	
JOUR 105G	Media and Society	
LING 2110G	Introduction to the Study of Language and Linguistics	
PHLS 1110G	Personal Health & Wellness	
POLS 1120G	American National Government	
POLS 1110G	Introduction to Political Science	
PSYC 1110G	Introduction to Psychology	
SOCI 1110G	Introduction to Sociology	
SOCI 2310G	Contemporary Social Problems	
SOWK 2110G	Introduction to Human Services & Social Work	
Or other approved the NMSU/DACC Ca	NM General Education Area IV course listed in atalog.	
Area V: Humanities - C	hoose one from the following:	3
ENGL 2310G	Introduction to Creative Writing	
ENGL 2520G	Film as Literature	
ENGL 2650G	World Literature I	
HIST 1105G	Making History	
HIST 1110G	United States History I	
HIST 1120G	United States History II	
HIST 1130G	World History I	
HIST 1140G	World History II	
HIST 1150G	Western Civilization I	
HIST 1160G	Western Civilization II	
PHIL 1115G	Introduction to Philosophy	
PHIL 1120G	Logic, Reasoning, & Critical Thinking	
PHIL 1140G	Quest for God	
PHIL 1145G	Philosophy, Law, and Ethics	
PHIL 2110G	Introduction to Ethics	
PHIL 2230G	Philosophical Thought	
Or other approved NM	General Education Area V course listed in the	
NMSU/DACC Catalog.		
Elective		3
	Credits	16
Semester 2		
Area I: Communication	ns - English Composition Level 2	3
ENGL 2210G or ENGL 2221G	Professional & Technical Communication or Writing in the Humanities and Social Science	
Or other approved N Level 2 in the NMSI	NM General Education Area I course listed in J/DACC Catalog.	
Area III: Laboratory Sc	iences - Choose one from the following:	4
ASTR 1115G	Introduction Astro (lec+lab)	
ASTR 1120G	The Planets	
BIOL 1120G & BIOL 1120L	Human Biology and Human Biology Laboratory	
BIOL 2110G & BIOL 2110L	Principles of Biology. Cellular and Molecular Biology and Principles of Biology: Cellular and Molecular Biology Laboratory	

	BIOL 2610G & BIOL 2610L	Principles of Biology: Biodiversity, Ecology, and Evolution	
		and Principles of Biology. Biodiversity, Ecology, and Evolution Laboratory	
	C S 171G	Introduction to Computer Science	
	CHEM 1120G	Introduction to Chemistry Lecture and Laboratory (non majors)	
	CHEM 1215G	General Chemistry I Lecture and Laboratory for STEM Majors	
	CHEM 1225G	General Chemistry II Lecture and Laboratory for STEM Majors	
	GEOG 1110G	Physical Geography	
	GEOL 1110G	Physical Geology	
	PHYS 1115G	Survey of Physics with Lab	
	PHYS 1125G	Physics of Music	
	PHYS 1230G & PHYS 1230L	Algebra-Based Physics I and Algebra-Based Physics I Lab	
	PHYS 1240G & PHYS 1240L	Algebra-Based Physics II and Algebra-Based Physics II Lab	
	PHYS 1310G & PHYS 1310L	Calculus -Based Physics I and Calculus -Based Physics I Lab	
	PHYS 1320G & PHYS 1320L	Calculus -Based Physics II and Calculus -Based Physics II Lab	
	Or other approved Nthe NMSU/DACC Ca	IM General Education Area III course listed in atalog.	
Are	ea VI: Creative and F	ine Arts - Choose one from the following:	3
	ARTH 1115G	Orientation in Art	
	ARTS 1145G	Visual Concepts	
	MUSC 1110G	Music Appreciation: Jazz	
	MUSC 1130G	Music Appreciation: Western Music	
	THEA 1110G	Introduction to Theatre	
Ele	ective		3
Ele	ective		3
		Credits	16
Se	mester 3		
Are	ea I: Communication	s - Oral Communications	3
	COMM 1115G	Introduction to Communication	
	or COMM 1130G		
	Communication in t	IM General Education Area I course listed in Oral he NMSU/DACC Catalog.	
Sc	iences (3 cr.)	ences (4 cr.) OR Area IV: Social/Behavioral	3-4
	ective		3
Ele	ective		3
Ele	ective		1
		Credits	13-14
	mester 4		
	neral Education Elec	ctive	3-4
	ective		3
	ective		3
	ective		3
⊏ 1€	ective	Cradita	15.16
_		Credits	15-16
		Total Credits	60-62

Name: DACC Academic Advising

Office Location: DASR 103

Phone: (575) 528-7272

Website: http://dacc.nmsu.edu/aad/

Associate of Science Doña Ana Community College 2020-21 Catalog

Associate of Science Degree

The Associate of Science degree allows students to complete many of the general education requirements for a bachelor's degree while still at the community college. Students should take electives that apply toward the requirements of their chosen bachelor's degree. The science electives may be taken at DACC or at NMSU.

Associate of Science (60 credits)

Students must complete 60 credits with a minimum cumulative grade-point average of 2.0. A minimum of 15 of the total degree credits for the associate's degree must be completed at DACC, or any other NMSU campus. The New Mexico General Education Requirements can be found in the section titled, "Transfer Among New Mexico Institutions of Higher Education'.

NOTE: Not all General Education ('G') courses listed below are taught at DACC. Please check DACC's current schedule for actual course offerings.

A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Prefix	Title	Credits
Area I: Communication	os	
English Composition -	Level 1	
ENGL 1110G	Composition I 1	4
English Composition -	Level 2	
Select one from the fo	ollowing:	3
ENGL 2210G	Professional & Technical Communication	
ENGL 2221G	Writing in the Humanities and Social Science	
Oral Communication		
COMM 1130G	Public Speaking	3
or COMM 1115G	Introduction to Communication	
	nay also be met by other approved General reses listed in the current NMSU Catalog.	
Area II: Mathematics		
Select one course fro	m the following: ¹	3-4
MATH 1220G	College Algebra	
MATH 1250G	Trigonometry & Pre-Calculus	
MATH 1350G	Introduction to Statistics	
MATH 1430G	Applications of Calculus I	
MATH 1511G	Calculus and Analytic Geometry I	
MATH 1521G	Calculus and Analytic Geometry II	
MATH 2350G	Statistical Methods	
Area III/IV: Laboratory	Sciences and Social/Behavioral Sciences	
Area III: Laboratory So	ciences	
Select two courses fr	om the following:	8
ASTR 1120G	The Planets	
ASTR 1115G	Introduction Astro (lec+lab)	

BIOL 1120G & BIOL 1120L	Human Biology and Human Biology Laboratory
BIOL 2110G & BIOL 2110L	Principles of Biology: Cellular and Molecular Biology and Principles of Biology: Cellular and Molecular Biology Laboratory
BIOL 2610G & BIOL 2610L	Principles of Biology: Biodiversity, Ecology, and Evolution and Principles of Biology: Biodiversity, Ecology, and Evolution Laboratory
C S 171G	Introduction to Computer Science
CHEM 1120G	Introduction to Chemistry Lecture and Laboratory (non majors)
CHEM 1215G	General Chemistry I Lecture and Laboratory for STEM Majors
CHEM 1225G	General Chemistry II Lecture and Laboratory for STEM Majors
GEOG 1110G	Physical Geography
GEOL 1110G	Physical Geology
PHYS 1115G	Survey of Physics with Lab
PHYS 1125G	Physics of Music
PHYS 1230G & PHYS 1230L	Algebra-Based Physics I and Algebra-Based Physics I Lab
PHYS 1240G & PHYS 1240L	Algebra-Based Physics II and Algebra-Based Physics II Lab
PHYS 1310G & PHYS 1310L	Calculus -Based Physics I and Calculus -Based Physics I Lab
PHYS 1320G & PHYS 1320L	Calculus -Based Physics II and Calculus -Based Physics II Lab
current NMSU Cata	neral Education Area III courses listed in the log. Check applicable university catalog to ate course(s) for intended bachelor's degree.

determine appropriate course(s) for intended bachelor's degree.				
Area IV: Social/Behavioral Sciences				
Select one course from the following: 3				
ANTH 1137G	Human Ancestors			
ANTH 1140G	Introduction to Cultural Anthropology			
ANTH 1115G	Introduction to Anthropology			
ANTH 1160G	World Archaeology			
CEPY 1120G	Human Growth and Behavior			
CJUS 1110G	Introduction to Criminal Justice			
ECON 1110G	Survey of Economics			
ECON 2110G	Macroeconomic Principles			
ECON 2120G	Microeconomics Principles			
GEOG 1130G	Human Geography			
POLS 1110G	Introduction to Political Science			
POLS 1120G	American National Government			
JOUR 105G	Media and Society			
LING 2110G	Introduction to the Study of Language and Linguistics			
PHLS 1110G	Personal Health & Wellness			
PSYC 1110G	Introduction to Psychology			
SOCI 1110G	Introduction to Sociology			
SOCI 2310G	Contemporary Social Problems			
SOWK 2110G	Introduction to Human Services & Social Work			
GNDR 2110G	Introduction to Women, Gender, and Sexuality Studies			
GNDR 2120G	Representing Women Across Cultures			
Other approved General Education Area IV courses listed in the current NMSU Catalog. Check applicable university catalog to				

determine appropriate course(s) for intended bachelor's degree.

Area V: Humanities

Area v. Humanities		
Select one course from	the following:	3
ENGL 1410G	Introduction to Literature	
ENGL 2310G	Introduction to Creative Writing	
ENGL 2520G	Film as Literature	
ENGL 2650G	World Literature I	
HIST 1105G	Making History	
HIST 1110G	United States History I	
HIST 1120G	United States History II	
HIST 1150G	Western Civilization I	
HIST 1160G	Western Civilization II	
PHIL 1115G	Introduction to Philosophy	
PHIL 1120G	Logic, Reasoning, & Critical Thinking	
PHIL 1140G	Quest for God	
PHIL 1145G	Philosophy, Law, and Ethics	
PHIL 2110G	Introduction to Ethics	
PHIL 2230G	Philosophical Thought	
current NMSU Cata determine appropri	neral Education Area V courses listed in the log. Check applicable university catalog to ate course(s) for intended bachelor's degree.	
Area VI: Creative and Fi		
Select one course from	n the following:	3
ARTH 1115G	Orientation in Art	
ARTS 1145G	Visual Concepts	
ARTH 2110G	History of Art I	
ARTH 2120G	History of Art II	
DANC 1110G	Dance Appreciation	
HNRS 2114G	Music in Time and Space	
HNRS 2115G	Encounters with Art	
HNRS 2178G	Theatre: Beginnings to Broadway	
MUSC 1110G	Music Appreciation: Jazz	
MUSC 1130G	Music Appreciation: Western Music	
THEA 1110G	Introduction to Theatre	
current NMSU Cata	neral Education Area VI courses listed in the log. Check applicable university catalog to ate course(s) for intended bachelor's degree.	
General Education Elect	ive ²	3-4
Science, Technology, E Electives	Ingineering, Mathematics and Health (STEM-H)	
	n within the following STEM-H prefixes s of 100/200-level courses): ³	21
academic advisor, t requirements to en	hould be selected in consultation with an he NMSU Catalog and the bachelor's degree sure course transfer. ⁴	
Electives, to bring the	total credits to 60 ⁵	6-4
an academic adviso	Electives (should be chosen in consultation with or and the bachelor's degree requirements.) Take nber of electives to reach 60 credits.	

A minimum grade of *C*- is required.

Total Credits

60

See the <u>General Education Section</u> (p. 52) of the catalog for a full list of courses

Not all prefixes are offered at DACC.

The STEM-H Elective course can be the following:

Courses

- ANTH 1135G Introduction to Biological Anthropology/ ANTH 1135L Introduction to Biological Anthropology Lab; ANTH 1160G World Archaeology
- AGRO 1110G Introduction to Plant Science (Lecture & Lab); AGRO 2996 Special Topics; AGRO 2160 Plant Propagation
- ASTR 1120G The Planets; ASTR 1115G Introduction Astro (lec+lab);
 ASTR 1116 Introduction to Astronomy Lab, Special
- BCHE 140 Introduction to Biochemistry; BCHE 241 Introduction to Research in Biochemistry
- · BCIS 1110 Introduction to Information Systems
- SPHS 2110 Introduction to Communication Disorders
- CHME 101 Introduction to Chemical Engineering Calculations; CHME 102 Material Balances; CHME 201 Energy Balances & Basic Thermodynamics; CHME 294 Communicating in Chemical Engineering
- FDMA 2755 Drawing for Animation; FDMA 2720 3-D Animation
- E E 100 Introduction to Electrical and Computer Engineering; E E 112
 Embedded Systems; E E 200 Linear Algebra, Probability and Statistics
 Applications; E E 212 Introduction to Computer Organization; E E 230
 Circuit Analysis and Introduction to Electronics; E E 240 Multivariate and Vector Calculus Applications
- ENVS 1110G Environmental Science I; ENVS 2111 Environmental Engineering and Science; ENVS 2111L Environmental Science Laboratory
- ENGR 100G Introduction to Engineering; ENGR 111 Mathematics for Engineering Applications
- EPWS 2996 Special Topics
- FSTE 1110G Introduction to Food Science and Technology; FSTE 2996 Special Topics; FSTE 2130G Survey of Food and Agricultural Issues; FSTE 2110G Food Science I
- FWCE 1120 Contemporary Issues in Wildlife and Natural Resources Management; FWCE 1110G Introduction to Natural Resources Management; FWCE 2110 Principles of Fish and Wildlife Management
- · GENE 1110 Experimental Systems in Genetics
- GEOL 1110G Physical Geology; GEOL 2996 Special Topics
- NUTR 2110 Human Nutrition; NUTR 2120 Seminar I Becoming a Nutrition Professional
- I E 151 Computational Methods in Industrial Engineering; I E 200 Special Problems-Sophomore; I E 217 Manufacturing Processes: I E 217 L Manufacturing Processes Laboratory
- M E 159 Graphical Communication and Design; M E 222 Introduction to Product Development; M E 234 Mechanics-Dynamics; M E 237 Engineering Mechanics II; M E 240 Thermodynamics; M E 261 Mechanical Engineering Problem Solving
- · MATH 1350G Introduction to Statistics; MATH 2350G Statistical Methods
- NURS 120 Introduction to Pharmacology; NURS 150 Medical Terminology; NURS 153 Medication and Dosage Calculation; NURS 155 Special Topics;
- PHLS 1111 Introduction to Health Science; PHLS 1110G Personal Health & Wellness; PHLS 2110 Foundations of Health Education; PHLS 2120 Essentials of Public Health
- RGSC 1110 The Range Science Profession; RGSC 2996 Special Topics
- SOIL 2996 Special Topics; SOIL 2110 Introduction to Soil Science/SOIL 2110L Introduction to Soil Science Laboratory
- SUR 222 Plane Surveying; SUR 264 Introduction to LIS; SUR 285 Precise Digital Mapping

Prefixes

- AERT
- · AHS
- ANSC (100/200-level (excluding ANSC 1120H, ANSC 1180, ANSC 1140)
- ARCH
- AUTO
- AXED (100/200-level (excluding AXED 2130))
- BC
- BIOL (100/200-level)
- C E (100/200-level
- · CS (100/200-level)

- · CHEM (100/200-level)
- DAS
- DHYG
- DMSDRFT
- ET (100/200-level (excluding ET 245 Computer Hardware Fundamentals)
- FIT
- FDMA
- FIRE
- GEOG (100/200-level)
- HIT
- · HORT (100/200-level)
- · HVAC
- INMT
- MAT
- MATH (100/200-level)
- NA
- NSC
- OEBM
- OECSOFFM
- OEET
- OEGR
- OFGS
- · OETS
- · PHYS (100/200-level)
- RADT
- RESP
- SMET
- SURG
- TCENWATR
- WFI D
- Elective credit may vary based on prerequisites, dual credit, or AP credit. The amount indicated in the requirements list is the amount needed to bring the total to 60 credits and may appear in variable form based on the degree. However students may end up needing to complete more or less on a case-by-case basis and students should discuss elective requirements with their advisor.

(60-62 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

Students must complete at least 60 credits with a minimum cumulative grade-point average of 2.0. A minimum of 15 of the total degree credits for the associate's degree must be completed at DACC, or any other NMSU campus. The New Mexico General Education Requirements can be found in the section titled, "Transfer Among New Mexico Institutions of Higher Education'.

NOTE: Not all General Education ('G') courses listed below are taught at DACC. Please check DACC's current schedule for actual course offerings.

A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Course	Title	Credits	PHIL 2110G	Introduction to Ethics	
Semester 1			PHIL 2230G	Philosophical Thought	
Area I: Communicatio	ns - English Composition Level 1	4	or other Approved I	New Mexico General Education Area V:	
ENGL 1110G	Composition I			listed in the current DACC/NMSU Catalog	
listed in Level 1 in	New Mexico General Education Area I course the current DACC/NMSU Catalog		,	cted in consultation with an academic advisor, log, and the bachelor's degree requirements to	3
	Algebra - Choose one from the following:	3-4	- Cliquic Course transier	Credits	16-17
MATH 1220G	College Algebra		Semester 2	Cieuits	10-17
MATH 1250G	Trigonometry & Pre-Calculus			ns - English Composition Level 2	3
MATH 1350G	Introduction to Statistics		ENGL 2210G	Professional & Technical Communication	3
MATH 1430G	Applications of Calculus I		or ENGL 2221G	or Writing in the Humanities and Social	
MATH 1511G	Calculus and Analytic Geometry I			Science	
MATH 1521G	Calculus and Analytic Geometry II		Area III: Laboratory Sc	iences - Choose one from the following:	4
MATH 2350G	Statistical Methods		ASTR 1115G	Introduction Astro (lec+lab)	
MATH 2530G	Calculus III		ASTR 1120G	The Planets	
	New Mexico General Education Area II course t DACC/NMSU Catalog		BIOL 1120G & BIOL 1120L	Human Biology and Human Biology Laboratory	
Area IV: Social/Behavi	oral Sciences - Choose one from the following:	3	BIOL 2110G	Principles of Biology: Cellular and Molecular	
ANTH 1115G	Introduction to Anthropology		& BIOL 2110L	Biology	
ANTH 1137G	Human Ancestors			and Principles of Biology: Cellular and	
ANTH 1140G	Introduction to Cultural Anthropology			Molecular Biology Laboratory	
ANTH 1160G	World Archaeology		BIOL 2610G	Principles of Biology: Biodiversity, Ecology, and	
CEPY 1120G	Human Growth and Behavior		& BIOL 2610L	Evolution and Principles of Biology: Biodiversity, Ecology,	
CJUS 1110G	Introduction to Criminal Justice			and Evolution Laboratory	
ECON 1110G	Survey of Economics		C S 171G	Introduction to Computer Science	
ECON 2110G	Macroeconomic Principles		CHEM 1120G	Introduction to Chemistry Lecture and	
ECON 2120G	Microeconomics Principles			Laboratory (non majors)	
GEOG 1130G	Human Geography		CHEM 1215G	General Chemistry I Lecture and Laboratory for	
GNDR 2110G	Introduction to Women, Gender, and Sexuality Studies		CHEM 1225G	STEM Majors General Chemistry II Lecture and Laboratory	
GNDR 2120G	Representing Women Across Cultures			for STEM Majors	
JOUR 105G	Media and Society		GEOG 1110G	Physical Geography	
LING 2110G	Introduction to the Study of Language and Linguistics		GEOL 1110G	Physical Geology	
PHLS 1110G	Personal Health & Wellness		PHYS 1115G	Survey of Physics with Lab	
POLS 1110G	Introduction to Political Science		PHYS 1125G	Physics of Music	
POLS 1120G	American National Government		PHYS 1230G & PHYS 1230L	Algebra-Based Physics I and Algebra-Based Physics I Lab	
PSYC 1110G	Introduction to Psychology		PHYS 1240G	Algebra-Based Physics II	
SOCI 1110G	Introduction to Sociology		& PHYS 1240L	and Algebra-Based Physics II Lab	
SOCI 2310G	Contemporary Social Problems		PHYS 1310G	Calculus -Based Physics I	
SOWK 2110G	Introduction to Human Services & Social Work		& PHYS 1310L	and Calculus -Based Physics I Lab	
or other Approved in the current DAC	Area IV: Social/Behavioral Sciences course listed		PHYS 1320G & PHYS 1320L	Calculus -Based Physics II and Calculus -Based Physics II Lab	
	Choose one from the following:	3	or other Approved I	New Mexico General Education Area III:	
ENGL 1410G	Introduction to Literature		-	es course listed in the current DACC/NMSU	
ENGL 2310G	Introduction to Creative Writing		Catalog		
ENGL 2520G	Film as Literature			Fine Arts - Choose one from the following:	3
ENGL 2650G	World Literature I		ARTH 1115G	Orientation in Art	
HIST 1105G	Making History		ARTH 2110G	History of Art I	
HIST 1110G	United States History I		ARTH 2120G	History of Art II	
HIST 1120G	United States History II		ARTS 1145G	Visual Concepts	
HIST 1150G	Western Civilization I		DANC 1110G	Dance Appreciation	
HIST 1160G	Western Civilization II		HNRS 2114G	Music in Time and Space	
PHIL 1115G	Introduction to Philosophy		HNRS 2115G	Encounters with Art	
PHIL 1120G	Logic, Reasoning, & Critical Thinking		HNRS 2178G	Theatre: Beginnings to Broadway	
PHIL 1140G	Quest for God		MUSC 1110G	Music Appreciation: Jazz	
PHIL 1145G	Philosophy, Law, and Ethics		MUSC 1130G	Music Appreciation: Western Music	
	., .,		THEA 1110G	Introduction to Theatre	

or other Approved New Mexico General Education Area VI course listed in the current DACC/NMSU Catalog

STEM-H Elective (Selected in consultation with an academic advisor,
the DACC/NMSU Catalog, and the bachelor's degree requirements to
ensure course transfer.)

STEM-H Elective (Selected in consultation with an academic advisor, the DACC/NMSU Catalog, and the bachelor's degree requirements to ensure course transfer.)

ensure course transfe	r.)	
	Credits	16
Semester 3		
Area I: Communicatio	ns - Oral Communications	3
COMM 1115G or COMM 1130	Introduction to Communication G or Public Speaking	
Area III: Laboratory So	ciences - Choose one from the following:	4
ASTR 1115G	Introduction Astro (lec+lab)	
ASTR 1120G	The Planets	
BIOL 1120G & BIOL 1120L	Human Biology and Human Biology Laboratory	
BIOL 2610G & BIOL 2610L	Principles of Biology: Biodiversity, Ecology, and Evolution and Principles of Biology: Biodiversity, Ecology, and Evolution Laboratory	
BIOL 2110G & BIOL 2110L	Principles of Biology: Cellular and Molecular Biology and Principles of Biology: Cellular and Molecular Biology Laboratory	
C S 171G	Introduction to Computer Science	
CHEM 1120G	Introduction to Chemistry Lecture and Laboratory (non majors)	
CHEM 1215G	General Chemistry I Lecture and Laboratory for STEM Majors	
CHEM 1225G	General Chemistry II Lecture and Laboratory for STEM Majors	
GEOG 1110G	Physical Geography	
GEOL 1110G	Physical Geology	
PHYS 1115G	Survey of Physics with Lab	
PHYS 1125G	Physics of Music	
PHYS 1230G	Algebra-Based Physics I	
PHYS 1240G	Algebra-Based Physics II	
PHYS 1310G	Calculus -Based Physics I	
PHYS 1320G	Calculus -Based Physics II	
	ected in consultation with an academic advisor, alog, and the bachelor's degree requirements to vr.)	3
`	ected in consultation with an academic advisor, alog, and the bachelor's degree requirements to er.)	3
	Credits	13
Semester 4		
	ective (To complete this requirement, take a GE 4 crits. See the NMGE Section of the DACC/NMSU of courses.	3-4
	ected in consultation with an academic advisor, alog, and the bachelor's degree requirements to r.)	3
	ected in consultation with an academic advisor,	3

the DACC/NMSU Catalog, and the bachelor's degree requirements to

College Elective (Selected in consultation with an academic advisor

and the intended bachelor's degree requirements.)

ensure course transfer.)

College Elective (Selected in consultation with an academic advisor and the intended bachelor's degree requirements.)	3
Credits	
Total Credits	60-62

Name: DACC Academic Advising

Office Location: DASR 103

Phone: (575) 528-7272

3

3

3

Website: http://dacc.nmsu.edu/aad/

Automation and Manufacturing Technology

Associate of Applied Science Degree

Certificates of Completion

- · Automation and Manufacturing Technology
- · Basic Manufacturing and Bridge

Electromechanical automation and manufacturing is an evolving, high-tech field, with applications in such areas as aerospace, food processing, and the pharmaceutical industry. It offers some of the highest salaries in the industrial sector, along with ample opportunities for rapid advancement. Automation and manufacturing technicians are responsible for production operation, as well as equipment monitoring, adjustment, maintenance, and repair in both routine and emergency situations.

Using modern industrial production equipment, DACC's Automation and Manufacturing Technology program provides training for desirable entry-level positions in electromechanical automated processes, as well as skills upgrading for those already working in the field. The program encourages the development of problem-solving skills, enabling students to adapt quickly to rapidly changing conditions brought on by automation and new technologies. The program is based on skills standards established for the high-tech manufacturing industry by the American Electronics Association's Workforce Skills Project, among others.

Students learn systems interfacing and automation using digital control circuits, programmable logic controllers (PLC), and computer-controlled interfaces. Hands-on preventive and corrective maintenance procedures are taught in modern laboratory facilities using the same state-of-the-art, automated production equipment found in the manufacturing industry.

The curriculum includes first-year DC, AC, digital logic, and solid-state electronic-circuit analysis courses from the Electronics Technology program.

Whether taking classes or working on a job site, students enrolled in this program will be required to perform the same job duties and be able to meet the same physical requirements that they will as a graduate in the field. Depending where they find employment, graduates may be required to lift and carry 50 pounds safely, to work safely using hand and power tools, to work safely on electrical equipment, to ascend and descend ladders, and to stand, squat, stoop, or kneel for long periods of time.

Additional Graduation Requirements

To receive either an associate degree or a certificate of completion, students are required to obtain a Career Readiness Certificate in the areas of Applied Math, Reading for Information, and Locating Information at the appropriate level for their respective degree option. To facilitate success in obtaining their Career Readiness Certificate, students will be required to take 1 credit of OETS 102 Career Readiness Certification Preparation. A program advisor can provide additional information.

Automation and Manufacturing Technology - Associate of Applied Science (p. 120)

Automation and Manufacturing - Certificate of Completion (p. 122)

Basic Manufacturing and Bridge - Certificate of Completion (p. 122)

MAT 102. Print Reading for Industry 3 Credits (2+2P)

Reading, interpretation, and revisions of industrial technical drawings common to manufacturing, Aerospace, machine parts, electrical, hydraulic, and Pneumatic drawings. Interpretation of engineering drawings and related shop calculations. Introduction Crosslisted with: AERT 113. Restricted to: Community Colleges only.

MAT 105. Introduction to Manufacturing 3 Credits (2+2P)

Introduction to manufacturing evolution from basic assembly process to modern automated processes. Covers history, employability, soft skills, quality measurements, teamwork concept, production requirements, and considerations in plan layout and design. Minimum math proficiency of CCDM 114 required or math placement into MATH 1215 or higher. Restricted to: Community Colleges only. Crosslisted with: AERT 112

MAT 106. Applied Manufacturing Practices 3 Credits (2+2P)

Course will illustrate how various products are manufactured along with associated process. Mechanical behavior such as bending, cold worked, strained, work hardened, and heat transfer will be emphasized as well. In lab, students will learn how to make selected products starting from prints to complete projects including quality control. Crosslisted with: AERT 114. Restricted to: Community Colleges only.

MAT 108. Metrology, Safety and Quality Control for Manufacturing 3 Credits (2+2P)

Use of measuring tools in manufacturing process and quality control. These tools include: vernier and digital micrometers, calipers, height gauges, hole gauges, pin gauges, electrical pressure/flow, temperature measuring, stress/strain measurements, and non-destructive testing (eddy currents, magnetic particle, ultrasonic, bubble emission, x-ray, Gamma ray, radiography, visual inspection, ring test, taping & Zyglo). Instruction to use of coordinate machine while covering the safety issues that pertains to these types of tools and equipment. Restricted to: Community Colleges only.

MAT 110. Machine Operation and Safety 3 Credits (2+2P)

Introduction to the operation and safety aspects of various types of machinery and equipment, including both mechanical and electrical machines, Rigid Tubing, and Flexible Lines. Maintenance and safety operation of industrial equipment will also be covered. Restricted to: Community Colleges only. Crosslisted with: AERT 115

MAT 130. Applied Industrial Electricity I 4 Credits (3+2P)

Electrical safety, AC and DC circuits, use and care of common measuring instrumentation, schematic and wiring diagrams, electromagnetism, National Electric Code branch circuits. Restricted to: Community Colleges

Prerequisite(s): MATH 1215 or ELT 120 or OETS 118.

MAT 135. Applied Industrial Electricity II 4 Credits (3+2P)

Relationship between motor power, speed, and torque, basic application of relay circuits, motor control circuits, inductance and capacitance factors, transformers, solid state devices circuits and applications. Restricted to: Community Colleges only.

Prerequisite(s): MAT 130.

MAT 145. Electromechanical Systems for Non-Majors 4 Credits (3+3P)

Electromechanical system interfacing. Principles and applications of preventive and corrective maintenance procedures on automated industrial production machines using system technical and maintenance manuals to develop troubleshooting procedures using systems block and schematic diagrams.

Prerequisite: consent of instructor.

MAT 221. Cooperative Experience I

1-6 Credits

Supervised cooperative work program. Student is employed in an approved occupation and rated by employer and instructor. Student meets in a weekly class. Graded S/U.

Prerequisite: consent of instructor.

MAT 234. Industrial Electricity Maintenance 3 Credits (2+2P)

Introduction into electrical systems, theory and uses for the different types of motors used in the industry and related industrial safety practices. DC, AC stepper and servo motors, motor speed and torque, motor performance, and efficiency, motor control fundamentals using variable frequency drives, vector controls, servo and stepper drives. Restricted to: Community Colleges only.

MAT 265. Special Topics

1-6 Credits

Course subtitled in the Schedule of Classes. May be repeated for a maximum of 12 credits.

Prerequisite: consent of instructor.

Name: Luis Meza, Department Chair

Office Location: DAWD 116A

Phone: (575)-527-7564

Website: https://dacc.nmsu.edu/mat/automation-manufacturing-technology/

Automation and Manufacturing Technology - Associate of Applied Science

Doña Ana Community College 2020-21 Catalog

Title

(61-62 credits)

Prefix

General Education

NOTE: Students must earn a final grade of C- or better in all required Technical Requirements and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 61 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Ochiciai Eddodiion		
Choose one course fro of 12-14 credits ^{1,2}	m four of the following six content areas for a total	12-14
J ,	courses from Areas I, II, III and IV; students do additional General Education courses to meet the	
Area I: Communic	ations - English Compostion Level 1	
ENGL 1110G	Composition I 3	
Area II: Mathemat	ics	
MATH 1250G	Trigonometry & Pre-Calculus ³	
Area III: Laborator	y Sciences - Choose one from the following:	
PHYS 1230G & PHYS 1230L	Algebra-Based Physics I and Algebra-Based Physics I Lab ³	
PHYS 1310G & PHYS 1310L	Calculus -Based Physics I and Calculus -Based Physics I Lab ³	
Area IV: Social/Be following:	havioral Sciences - Choose one from the	
PSYC 1110G	Introduction to Psychology ³	
SOCI 1110G	Introduction to Sociology ³	
General Education Elec Level 2	ctive - Area I: Communications - English Composition	
ENGL 2210G	Professional & Technical Communication	3
Core Requirement		
Technical Requiremen	ts	
DRFT 114	Introduction to Solid Modeling	3
ELT 110	Electronics I	4
ELT 135	Electronics II	4
ELT 160	Digital Electronics I	4
ELT 205	Semiconductor Devices	4
ELT 225	Computer Applications for Technicians	3
ELT 235	Digital Electronics II	3
MAT 102	Print Reading for Industry	3
MAT 105	Introduction to Manufacturing	3
MAT 110	Machine Operation and Safety	3
MAT 265	Special Topics	8
OETS 102	Career Readiness Certification Preparation	1
Total Credits		61

- Each course selected must be from a different area and students cannot take multiple courses in the same area.
- See the <u>General Education</u> (p. 52) section of the catalog for a full list of courses.

Courses are identical to those offered at New Mexico State University Las Cruces (main) Campus. Students planning to continue their studies at NMSU should choose these courses whenever possible.

(61-62 credits)

Credits

MAT 102

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must earn a final grade of C- or better in all required Technical Requirements and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 61 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course	Title	Credits
Semester 1		
Area I: Communication	ns - English Composition Level I	4
ENGL 1110G	Composition I	
Area II: Mathematics	·	4
MATH 1250G	Trigonometry & Pre-Calculus	
ELT 110	Electronics I	4
ELT 225	Computer Applications for Technicians	3
	Credits	15
Semester 2		
Area IV: Social/Behavio	oral Sciences - Choose one from the following:	3
BMGT 240	Human Relations	
PSYC 1110G	Introduction to Psychology	
SOCI 1110G	Introduction to Sociology	
General Education Elec Compostion Level 2	ctive - Area I: Communications - English	3
ENGL 2210G	Professional & Technical Communication	
DRFT 114	Introduction to Solid Modeling	3
ELT 135	Electronics II	4
ELT 160	Digital Electronics I	4
LLI 100	Credits	17
Semester 3	orcuits	.,
ELT 205	Semiconductor Devices	4
ELT 235	Digital Electronics II	3
MAT 105	Introduction to Manufacturing	3
MAT 110	Machine Operation and Safety	3
OETS 102	Career Readiness Certification Preparation	1
0210102	Credits	14
Semester 4	o.ca.co	
Area III: Laboratory Sc	iences - Choose one from the following:	4
PHYS 1230G	Algebra-Based Physics I	
& PHYS 1230L	and Algebra-Based Physics I Lab	
PHYS 1310G & PHYS 1310L	Calculus -Based Physics I and Calculus -Based Physics I Lab	

Print Reading for Industry

MAT 265	Special Topics	8
	Credits	15
	Total Credits	61

Automation and Manufacturing - Certificate of Completion

Doña Ana Community College 2020-21 Catalog (33 credits)

NOTE: Students must earn a final grade of C- or better in all required Technical Requirements and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University certificate requirements, which include: General Education requirements and elective credits to total at least 33 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits	
Technical Requirements			
ELT 110	Electronics I	4	
MATH 1250G	Trigonometry & Pre-Calculus ^{1, 2}	4	
or ELT 120	Mathematics for Electronics		
ELT 135	Electronics II	4	
ELT 160	Digital Electronics I	4	
MAT 102	Print Reading for Industry	3	
MAT 105	Introduction to Manufacturing	3	
MAT 110	Machine Operation and Safety	3	
MAT 265	Special Topics	8	
Total Credits		33	

- Courses are identical to those offered at New Mexico State University Las Cruces (main) Campus. Students planning to continue their studies at NMSU should choose these courses whenever possible.
- While ELT 120 meets program requirements, it does not meet the NM General Education Area II: Mathematics requirements.

(33 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must earn a final grade of C- or better in all required Technical Requirements and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University certificate requirements to total at least 33 credits. Developmental coursework will not count towards the

degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course	Title	Credits
Semester 1		
MATH 1250G	Trigonometry & Pre-Calculus ¹	4
or ELT 120	or Mathematics for Electronics	
ELT 110	Electronics I	4
MAT 105	Introduction to Manufacturing	3
	Credits	11
Semester 2		
ELT 135	Electronics II	4
MAT 102	Print Reading for Industry	3
	Credits	7
Semester 3		
ELT 160	Digital Electronics I	4
MAT 110	Machine Operation and Safety	3
MAT 265	Special Topics	5
	Credits	12
Semester 4		
MAT 265	Special Topics	3
	Credits	3
	Total Credits	33

While ELT 120 meets program requirements, it does not meet the NM General Education Area II: Mathematics requirements.

Basic Manufacturing and Bridge - Certificate of Completion

Doña Ana Community College 2020-21 Catalog

(18 credits)

NOTE: Students must earn a final grade of C- or better in all required Technical Requirements and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University certificate requirements to total at least 18 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
Technical Requir	ements	
ELT 105	Basic Electricity and Electronics	3
MAT 102	Print Reading for Industry	3
MAT 105	Introduction to Manufacturing	3
MAT 106	Applied Manufacturing Practices	3
MAT 108	Metrology, Safety and Quality Control for Manufacturing	3
MAT 110	Machine Operation and Safety	3
Total Credits		18

(18 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must earn a final grade of C- or better in all required Technical Requirements and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University certificate requirements to total at least 18 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course	Title	Credits
Semester 1		
ELT 105	Basic Electricity and Electronics	3
MAT 105	Introduction to Manufacturing	3
MAT 106	Applied Manufacturing Practices	3
	Credits	9
Semester 2		
MAT 102	Print Reading for Industry	3
MAT 108	Metrology, Safety and Quality Control for Manufacturing	3
MAT 110	Machine Operation and Safety	3
	Credits	9
	Total Credits	18

Automotive Technology

Associate of Applied Science Degree

Certificate of Completion

The automobile has always created a steady demand for automotive technicians. Today, automotive service is one of the fastest-growing industries in the nation, and career opportunities are expanding rapidly.

The Automotive Technology program at Doña Ana Community College is certificated by NATEF/ASE (National Automotive Technicians Education Foundation/Automotive Service Excellence) and is designed to prepare the student for an entry-level position as a line technician, shop foreman, service writer, service manager, or business owner. Completing courses, certificates, and/or degrees from an NATEF certified school will enhance students' ability to gain employment as well as better prepare them to become NATEF certified.

Students are trained using state-of-the-art equipment. In the laboratories, they practice the same service and repair techniques required of any professional service technician working in the real world. Each class includes a number of carefully selected competencies that must be mastered in order to successfully complete the program. Students are trained in:

- · Engine service
- · Suspension and steering
- · Manual drive train and axles

- · Electrical systems
- Brakes
- · Fuel and emissions
- · Heating and air conditioning
- · Engine performance
- · Automatic transmission/transaxle

Classes are offered in the daytime and also at night to accommodate work schedules.

Full-time Automotive Technology students are required to purchase a personal set of automotive technician's tools at an approximate cost of \$1,100, an iPad at the approximate cost of \$400, and to provide their own safety glasses. In addition, they are strongly encouraged to purchase medical/accident insurance. The tool set includes the basic tools that most employers require for an entry-level position. Part-time students are required to purchase only those tools required by the specific course(s) in which they are enrolled.

All Automotive Technology students are encouraged to join SkillsUSA, membership in which provides students an opportunity to develop their leadership skills and to become proficient in public speaking and parliamentary procedure. SkillsUSA also offers students an opportunity to demonstrate their occupational skills through competitions that are held annually on both the state and national level.

Whether taking classes or working on a job site, students enrolled in this program will be required to perform the same job duties and be able to meet the same physical requirements that they will as a graduate in the field. Graduates may be required to lift and carry 50 pounds safely, work safely using hand and power tools and electrical equipment, and stand, squat, stoop, or kneel for long periods of time.

Additional Graduation Requirements

To receive either an associate degree or a certificate of completion, students are required to obtain a Career Readiness Certificate in the areas of Applied Math, Workplace Documents, and Graphic Literacy at the appropriate level for their respective degree option. OETS 102 Career Readiness Certification Preparation, is a course offered to assist the student in their preparation to attain the required Career Readiness Certificates.A program advisor can provide additional information.

NOTE: Students must achieve a cumulative grade-point average of 2.0 with a final grade of C- or better in ENGL 1110G Composition I and a final grade of C- or better in all required AUTO courses.

<u>Automotive Technology - Associate of Applied Science</u> (p. 124)

Automotive Technology - Certificate of Completion (p. 126)

AUTO 102. Electrical Measuring Instruments 2 Credits (1+2P)

Selection, operation, and care of electrical measuring instruments.

AUTO 103. Auto Mechanics Fundamentals 4 Credits (2+4P)

Theory and operation of all areas of auto mechanics. Basic repair and maintenance operations.

AUTO 112. Basic Gasoline Engines

5 Credits (2+6P)

Principles of gasoline engine operation. Identification, design, function of engine components; engine disassembly and reassembly; trouble shooting, and rebuilding heads.

AUTO 117. Electronic Analysis and Tune-Up of Gasoline Engines 5 Credits (2+6P)

Theory and operation of ignition and emission control systems and fuel system. Use of troubleshooting equipment and diagnostic equipment. Prerequisite: AUTO 120 or consent of instructor.

AUTO 118. Technical Math for Mechanics

3 Credits (2+3P)

Mathematical applications for the automotive trade.

AUTO 119. Manual Transmission/Clutch

5 Credits (2+6P)

Manual transmission, transfer cases, and clutch operating principles. Students will diagnose problems, remove and replace, disassemble, repair, and assemble units.

AUTO 120. Electrical Systems

4 Credits (2+4P)

Troubleshooting and repair of starters, alternators, and associated circuits. Reading electrical diagrams, diagnosis and repair of electrical

Prerequisite: consent of instructor.

AUTO 125. Brakes

5 Credits (2+6P)

Theory of operation, diagnosis, repair, and maintenance of disc and drum brakes; safety and use of special tools.

AUTO 126. Suspension, Steering, and Alignment 5 Credits (2+6P)

Types of steering systems, suspension maintenance and repair, fourwheel alignment procedures.

AUTO 127. Basic Automatic Transmission

4 Credits (2+4P)

Theory and operation of the automatic transmission; maintenance, troubleshooting, diagnosis, and repair of components.

AUTO 130. Introduction to Transportation Industry

3 Credits

State and national traffic statutes that relate to the trucking industry. A Commercial Driver's License Learner s Permit will be obtained through successful completion of the course.

Prerequisites: Must be 18 years of age, have a current driver's license and consent of instructor.

AUTO 131. Class A CDL

3 Credits (1+4P)

Instruction in how to perform proper pre-trip inspection; hands-on training with a tractor-trailer unit on the backing range and street driving to develop skills necessary to pass Class A DCL exam. Restricted to Community Colleges campuses only.

Prerequisite(s): Class A CDL restricted license (permit) and either restriction of D.O.T.

AUTO 132. Automotive Air-Conditioning and Heating Systems 4 Credits (2+4P)

Theory and operation, reading schematic diagrams, troubleshooting, repair, and replacement operations performed.

AUTO 137. Fuel Systems and Emission Controls

4 Credits (2+4P)

Covers theory and operation of fuel system and emission control. Troubleshooting, vacuum diagrams, overhaul, repair and adjustment of carburetion and fuel injection.

Prerequisites: AUTO 117 or consent of instructor.

AUTO 139. Automotive Computer Controls

4 Credits (2+4P)

Same as OEPM 139.

AUTO 221. Cooperative Experience I

1-6 Credits

Supervised cooperative work program. Student is employed in an approved occupation and supervised and rated by the employer and instructor. Student will meet in a weekly class. Graded S/U.

Prerequisite: consent of instructor.

AUTO 255. Special Problems in Automotive Technology

1-5 Credits

Individual studies in areas directly related to automotive technologies. May be repeated for a maximum of 12 credits.

Prerequisite: consent of instructor.

AUTO 295. Special Topics

1-6 Credits

Topics to be announced in the Schedule of Classes.

Name: Terry Mount, Department Chair

Office Location: DATS 155A

Phone: (575) 527-7584

Website: https://dacc.nmsu.edu/auto/

Automotive Technology - Associate of Applied Science

Doña Ana Community College 2020-21 Catalog

(60 credits)

NOTE: Students must earn a final grade of C- or better in all required AUTO courses/Technical Requirements and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 60 credits (60 of credits listed for degree). Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix Credits

General Education

Choose one course from four of the following six content areas for a total

12-14

This degree requires a course from Area I, students must select three courses from the remaining areas to complete General Education requirements (at least 9 credits worth).

Area I: Communications - English Composition Level 1

ENGL 1110G Composition I³

Area III: Laboratory	Sciences - The following are recommended	
course options:		
ASTR 1115G	Introduction Astro (lec+lab) ³	
BIOL 1120G & BIOL 1120L	Human Biology and Human Biology Laboratory ³	
BIOL 2610G & BIOL 2610L	Principles of Biology: Biodiversity, Ecology, and Evolution	
	and Principles of Biology: Biodiversity, Ecology, and Evolution Laboratory ³	
CHEM 1120G	Introduction to Chemistry Lecture and Laboratory (non majors) ³	
GEOG 1110G	Physical Geography ³	
PHYS 1115G	Survey of Physics with Lab ³	
PHYS 1230G & PHYS 1230L	Algebra-Based Physics I and Algebra-Based Physics I Lab ³	
Area IV: Social/Beh	avioral Sciences - The following are	
ANTH 1137G	Human Ancestors ³	
ANTH 1115G	Introduction to Anthropology ³	
ANTH 1160G	World Archaeology ³	
ECON 1110G	Survey of Economics ³	
ECON 2110G	Macroeconomic Principles ³	
ECON 2110G	Microeconomics Principles ³	
GEOG 1120G	World Regional Geography ³	
POLS 1110G	Introduction to Political Science ³	
POLS 1110G	American National Government ³	
	Issues in American Politics ³	
POLS 1130G	_	
PSYC 1110G	Introduction to Psychology ³	
SOCI 1110G	Introduction to Sociology 3	
SOCI 2310G	Contemporary Social Problems ³	
options:	- The following are recommended course	
HIST 1150G	Western Civilization I 3	
HIST 1160G	Western Civilization II 3	
HIST 1110G	United States History I	
HIST 1120G	United States History II ³	
PHIL 1115G	Introduction to Philosophy ³	
PHIL 1120G	Logic, Reasoning, & Critical Thinking 3	
PHIL 2110G	Introduction to Ethics ³	
Area VI: Creative an course options:	nd Fine Arts - The following are recommended	
ARTH 1115G	Orientation in Art ³	
ARTS 1145G	Visual Concepts ³	
MUSC 1110G	Music Appreciation: Jazz ³	
MUSC 1130G	Music Appreciation: Western Music ³	
General Education Elec Communications	tive - Area I: Communications - Oral	
COMM 1115G	Introduction to Communication ³	3
Core Requirements		
OETS 118	Mathematics for Technicians	3
Approved elective		1
Major Requirements		
Technical Requirement	s	
AUTO 112	Basic Gasoline Engines	5
AUTO 117	Electronic Analysis and Tune-Up of Gasoline Engines	5
AUTO 119	Manual Transmission/Clutch	5
AUTO 120	Electrical Systems	4
AUTO 125	Brakes	5

AUTO 126	Suspension, Steering, and Alignment	5
AUTO 127	Basic Automatic Transmission	4
or AUTO 132	Automotive Air-Conditioning and Heating Systems	
AUTO 137	Fuel Systems and Emission Controls	4
AUTO 221	Cooperative Experience I	3
Total Credits		60

- Each course selected must be from a different area and students cannot take multiple courses in the same area.
- See the <u>General Education</u> (p. 52) section of the catalog for a full list of courses.
- Courses are identical to those offered at New Mexico State University Las Cruces (main) Campus.

(60 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must earn a final grade of C- or better in all required AUTO courses/Technical Requirements and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 60 credits (60 of credits listed for degree). Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

С	ourse	Title	Credits
S	emester 1		
Α	rea I: Communicatior	ns - English Composition Level 1	4
	ENGL 1110G	Composition I	
I۱		n different NM General Education Areas III, 3 courses from different areas are required. s include:	3-4
	Area III: Laboratory	Sciences	
	ASTR 1115G	Introduction Astro (lec+lab)	
	BIOL 1120G & BIOL 1120L	Human Biology and Human Biology Laboratory	
	BIOL 2610G & BIOL 2610L	Principles of Biology: Biodiversity, Ecology, and Evolution and Principles of Biology: Biodiversity, Ecology, and Evolution Laboratory	
	CHEM 1120G	Introduction to Chemistry Lecture and Laboratory (non majors)	
	GEOG 1110G	Physical Geography	
	PHYS 1115G	Survey of Physics with Lab	
	PHYS 1230G & PHYS 1230L	Algebra-Based Physics I and Algebra-Based Physics I Lab	
	Area IV: Social/Behavioral Sciences		
	ANTH 1115G	Introduction to Anthropology	
	ANTH 1137G	Human Ancestors	
	ANTH 1160G	World Archaeology	
	ECON 1110G	Survey of Economics	

ECON 2110G	Macroeconomic Principles	
ECON 2120G	Microeconomics Principles	
GEOG 1120G	World Regional Geography	
POLS 1120G	American National Government	
POLS 1130G	Issues in American Politics	
PSYC 1110G	Introduction to Psychology	
SOCI 1110G	Introduction to Sociology	
SOCI 2310G	Contemporary Social Problems	
Area V: Humaniti		
HIST 1110G	United States History I	
HIST 1120G	United States History II	
HIST 1150G	Western Civilization I	
HIST 1160G	Western Civilization II	
PHIL 1115G	Introduction to Philosophy	
PHIL 1120G	Logic, Reasoning, & Critical Thinking	
PHIL 2110G	Introduction to Ethics	
Area VI: Creative		
ARTH 1115G	Orientation in Art	
ARTS 1145G	Visual Concepts	
MUSC 1110G	Music Appreciation: Jazz	
MUSC 1130G	Music Appreciation: Western Music	
AUTO 112	Basic Gasoline Engines	5
OETS 118	Mathematics for Technicians	3
	Credits	15-16
Semester 2		
AUTO 120	Electrical Systems	4
AUTO 125	Brakes	5
AUTO 126	Suspension, Steering, and Alignment	5
	Credits	14
Semester 3		
	Elective - Area I: Communications - Oral	3
Communications COMM 1115G	Introduction to Communication	
AUTO 117	Electronic Analysis and Tune-Up of Gasoline	
AUTU IT7	Electronic Analysis and Tune-Up of Gasoline Engines	5
AUTO 119	Manual Transmission/Clutch	5
	om different NM General Education Areas III,	3
	of 3 courses from different areas are required.	
Recommended cour	rses listed in Semester 1.	
Composter 4	Credits	16
Semester 4	and different NIM Conord Education Asses III	^
	om different NM General Education Areas III, of 3 courses from different areas are required.	3
	rses listed in Semester 1.	
AUTO 127	Basic Automatic Transmission	4
AUTO 137	Fuel Systems and Emission Controls	4
AUTO 221	Cooperative Experience I	3
Approved Elective		1
	Credits	15
		. •
	Total Credits	60-61

Automotive Technology - Certificate of Completion

Doña Ana Community College 2020-21 Catalog

(16-19 credits)

NOTE: Students must earn a final grade of C- or better in all required AUTO courses/Technical Requirements and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements to total at least 16 credits (16-19 of credits listed for degree). Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
Technical Requiremen	ts	
AUTO 120	Electrical Systems	4
Select 12-15 credits from	om the the following:	12-15
AUTO 112	Basic Gasoline Engines	
AUTO 117	Electronic Analysis and Tune-Up of Gasoline Engines	
AUTO 119	Manual Transmission/Clutch	
AUTO 125	Brakes	
AUTO 126	Suspension, Steering, and Alignment	
AUTO 127	Basic Automatic Transmission	
AUTO 132	Automotive Air-Conditioning and Heating Systems	
AUTO 137	Fuel Systems and Emission Controls	
Total Credits		16-19

(16-19 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must earn a final grade of C- or better in all required AUTO courses/Technical Requirements and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements to total at least 16 credits (16-19 of credits listed for degree). Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course	Title	Credits
Semester 1		
AUTO 120	Electrical Systems	4
AUTO Elective - Choos	se one from the following:	4-5
AUTO 112	Basic Gasoline Engines	
AUTO 117	Electronic Analysis and Tune-Up of Gasoline Engines	
AUTO 119	Manual Transmission/Clutch	
AUTO 125	Brakes	

AUTO 126	Suspension, Steering, and Alignment	
AUTO 127	Basic Automatic Transmission	
AUTO 132	Automotive Air-Conditioning and Heating Systems	
AUTO 137	Fuel Systems and Emission Controls	
	Credits	8-9
Semester 2		
AUTO Electives - Choo	ose two from the following:	8-10
AUTO 112	Basic Gasoline Engines	
AUTO 117	Electronic Analysis and Tune-Up of Gasoline Engines	
AUTO 119	Manual Transmission/Clutch	
AUTO 125	Brakes	
AUTO 126	Suspension, Steering, and Alignment	
AUTO 127	Basic Automatic Transmission	
AUTO 132	Automotive Air-Conditioning and Heating Systems	
AUTO 137	Fuel Systems and Emission Controls	
	Credits	8-10
	Total Credits	16-19

Building Construction Technology

Associate of Applied Science Degree

· Building Construction Technology (60 credits)

The Associate of Applied Science Degree in Building Construction Technology prepares students for opportunities within the growing construction industry. Providing significant hands-on instruction and student participation, the degree includes basic construction safety, technical math skills, blueprint reading, use of hand and power tools, wood building materials, concrete work, masonry construction, and basic plumbing skills. This competency and performance-based degree follows nationally recognized National Center for Construction Education and Research (NCCER) accreditation and certification standards. Students may enroll on a full-time or part-time basis. Some courses are offered in the evening to accommodate students' work schedules.

Students may also choose to pursue a Certificate of Completion in Building Construction Technology (43-44 credits), Basic Solar (22 credits), Energy Auditing (23 credits), Basic Residential Wiring (17 credits), and/or Plumbing (17 credits) while pursuing an Associate of Applied Science Degree in Building Construction Technology.

Certificates of Completion

- Building Construction Technology (43-44 credits)
- Basic Solar (22 credits)
- Energy Auditing (23 credits)
- · Basic Residential Wiring (17 credits)
- Plumbing (17 credits)

The certificates of completion in Building Construction Technology prepare students for basic, entry-level positions within the growing construction industry. Providing hands-on instruction and student participation, the certificates include basic construction safety, technical math skills, blueprint reading, use of hand and power tools, construction materials, and other related, applicable skills and training as described below. These competency and performance-based certificates follow nationally recognized National Center for Construction Education and

Research (NCCER) accreditation and certification standards. Students may enroll on a full-time or part-time basis. Some courses are offered in the evening to accommodate students' work schedules.

- The Certificate of Completion in Basic Solar prepares a student with the skills for entry-level employment in the field of basic solar panel installation and construction related solar energy applications.
- The Certificate of Completion in Energy Auditing prepares a student with the skills for entry-level employment in the field of energy auditing, including the analysis of existing structures for energy efficiency and conservation.
- The Certificate of Completion in Basic Residential Wiring prepares students for entry-level employment in the residential wiring field, including basic residential wiring procedures and practices.
- The Certificate of Completion in Plumbing prepares a student with the skills for entry-level employment in the plumbing field, including basic residential plumbing procedures and practices.

All Building Construction Technology students are encouraged to join the student chapter of the National Association of Home Builders (NAHB). Membership provides students an opportunity to develop their leadership skills, become proficient in public speaking and parliamentary procedures, network with industry professionals, attend training provided by Las Cruces Home Builders Association (LCHBA), and attend other relevant professional development activities. Through their membership, students will have the opportunity to participate in service-learning events that support the local community. Students may also be able to demonstrate their technical skills at the International Builders Show (IBS) or through SkillsUSA competitions.

Whether during class, laboratory, or working on a class-related job site, students enrolled in the Building Construction Technology program will be required to perform the same job duties and be able to meet the same physical requirements that they will as a graduate in the field. Depending where they find employment, graduates may be required to:

- · Work in inclement weather,
- · Lift up to 50 pounds from the ground,
- · Possess good eye-hand coordination,
- Work safely around electrical hazards using the appropriate safety equipment,
- · Work safely using hand and power tools,
- · Ascend and descend stairs and ladders, and
- Stand, squat, or kneel for long periods.

Building Construction Technology - Associate of Applied Science (p. 129)

Building Construction Technology - Certificate of Completion (p. 130)

Basic Solar - Certification of Completion (p. 132)

Energy Auditing - Certificate of Completion (p. 132)

Basic Residential Wiring - Certificate of Completion

Plumbing - Certificate of Completion (p. 133)

BCT 100. Building Trades I

8 Credits (2+12P)

Equipment and general safety. Human relations, building construction surveying, footings, foundation form work, framing, sheathing, insulation. Basic electrical wiring and plumbing. Classroom instruction, on- the-job training, and problem solving.

BCT 101. Introduction to Construction I

2 Credits (2+1P)

Basic safety, including personal protective equipment, how to perform basic construction tasks safely, and what to do if an accident occurs. Includes basic construction methods. May be repeated up to 2 credits. Restricted to Community Colleges campuses only.

Corequisite(s): BCT 102;BCT 103.

BCT 102. Introduction to Construction II

2 Credits (2+1P)

Introduction to power and hand tools, blueprints, and basic rigging hardware and techniques. May be repeated up to 2 credits. Restricted to Community Colleges campuses only.

Corequisite(s): BCT 101;BCT 103.

BCT 103. Introduction to Construction Laboratory

3 Credits (3)

Provides students the opportunity to practice skills they have acquired in BCT 101 and BCT 102. It includes task-oriented projects in which students can apply many of the skills and knowledge that have been presented throughout the National Center for Construction and Education Research (NCCER) Carpentry Program. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Corequisite(s): BCT 101; BCT 102.

BCT 104. Woodworking Skills I

3 Credits (1+4P)

Use and care of hand tools and elementary power tools, safety procedures, and supervised project construction.

BCT 105. Woodworking Skills II

3 Credits (1+4P)

Advanced woodworking skills to include use of advanced power tools, power tool safety, and supervised construction.

Prerequisite: BCT 104 or consent of instructor.

BCT 106. Woodworking Theory and Practice

3 Credits (2+2P)

History of wood manufacturing, industrial techniques, wood characteristics, stains and finishes. Design and construction of minor wood projects.

BCT 107. Painting I

4 Credits (2+4P)

Types and applications of paints and clear coatings. Use of fasteners, caulks, and sealants. Restricted to: Community Colleges only.

BCT 109. Plumbing I

3 Credits (2+3P)

Covers orientation to the trade. Students will learn about materials used in the plumbing industry and the different types of plumbing fixtures. It includes task-oriented projects in which the students apply many of the skills and knowledge that are presented through the National Center for Construction and Education Research (NCCER) Plumbing Program. May be repeated up to 3 credits.

Prerequisite(s)/Corequisite(s): BCT 101, BCT 102. Restricted to Community Colleges campuses only.

BCT 110. Blueprint Reading for Building Trades

4 Credits (2+4P)

Same as DRFT 151, OEET 101, OEPB 110.

BCT 111. Small Equipment Maintenance and Repair 4 Credits (2+4P)

Covers small engine theory, troubleshooting and repair, auto maintenance, hydraulic theory and repair lubricants, batteries and scheduled tool maintenance. Restricted to: Community Colleges only.

BCT 114. Basic Carpentry

3 Credits (1+4P)

Covers orientation to the trade; wood building materials, fasteners, and adhesives; detailed description and explanations of hand-operated and power tools, including safety; framing basics including laying out and constructing of wood floors, walls and ceilings and includes roughing in of door and window openings. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Corequisite(s): BCT 115; BCT 116.

BCT 115. Carpentry Level I

3 Credits (1+4P)

Describes the various kinds of roofs and provides instructions for lay out of the different roofing systems. Describes the various types of windows, skylights, and exterior doors and provides instruction for installation. May be repeated up to 3 credits. Consent of Instructor required. Restricted to Community Colleges campuses only.

Corequisite(s): BCT 114; BCT 116.

BCT 116. Basic Carpentry Lab

2 Credits (2)

Provides students the opportunity to practice skills they have acquired in BCT 114 and BCT 115. It includes task-oriented projects in which students can apply many of the skills and knowledge that have been presented throughout the National Center for Construction and Education Research (NCCER) Carpentry Program. May be repeated up to 2 credits. Restricted to Community Colleges campuses only.

Corequisite(s): BCT 114; BCT 115.

BCT 117. Plumbing 1A

3 Credits (2+2P)

This course will introduce students to the plumbing profession. Students will become familiar with the tasks and responsibilities of plumbing professionals in the construction industry and gain a basic knowledge of the plumbing field. Restricted to Community Colleges campuses only.

BCT 118. Math for Building Trades

3 Credits (3)

Geometry, algebra, arithmetic, and basic trigonometry pertaining to mathematical applications in the building trades field. Same as OEET 118, DRFT 118, OEPB 118.

Prerequisite: CCDM 103 N.

BCT 123. Residential Wiring I

3 Credits (2+3P)

Introduction to residential electrical wiring trade, electrical safety practices, basic electrical circuits and theory, reading and interpreting applicable construction prints/drawings, introduction to basic National Electric Code (NEC), and preparation for entry-level employment in residential electrical wiring. Restricted to Community Colleges campuses only.

12-14

BCT 130. Professional Development and Leadership 1 Credit (1)

As members and/or officers of various student professional organizations, students gain experience in leadership, team building, and community service. Students competing or participating in Skills USA are required to register for the course. May be repeated up to 6 credits. Consent of Instructor required. Restricted to: BCT majors. Graded: S/U Grading (S/U, Audit). Restricted to: Community Colleges only.

BCT 150. Forklift Operation

1 Credit (1)

Classroom instruction and hands-on practice to prepare students to operate a forklift safely in the workplace. Students will have the opportunity to earn a forklift operator's permit. Consent of Instructor required. Restricted to Community Colleges campuses only.

BCT 200. Building Trades II 8 Credits (2+12P)

Continuation of BCT 100: roofing; exterior and interior finish; masonry; door, window, and cabinet installation.

BCT 206. Advanced Cabinetmaking

3 Credits (1+3P)

Advanced cabinetmaking skills, to include expert use of hand and power tools, professional construction and finishing techniques.

Prerequisites: BCT 105, BCT 106, or consent of instructor.

BCT 209. Plumbing II 3 Credits (2+3P)

Continuation of BCT 109. Provides students the opportunity to gain more practice in the skills and knowledge learned in Plumbing I. Students will install fixtures and run the various plumbing supply lines from Plumbing Level I. The course included hands on projects in which the students apply many of the competencies that have been presented through the National Center for Construction and Education Research (NCCER) Plumbing Program. May be repeated up to 3 credits.

Prerequisite(s)/Corequisite(s): BCT 109.

BCT 217. Building and the Environment 3 Credits (3)

Introduction to LEED's, and Green Building Fundamentals, sustainability, sustainable design and green building evaluating cost implication of green building. Describes site development; managing site water runoff, improving a project's water use efficiency. Discusses renewable energy sources, and introduces student to generating power on-site using renewable energy sources, improving a building's indoor environment quality, improving the building industries' environmental performance and environmental aspects of building maintenance, re-use and conservation.Restricted to: Community Colleges only.

BCT 218. Plumbing 2

4 Credits (2+4P)

This course builds on the skills and knowledge students have gained in previous BCT introduction to plumbing courses, focusing on installation of plumbing systems. Students will become familiar with the tasks and responsibilities of plumbing professionals in the construction industry and gain a basic knowledge of the plumbing field.

Prerequisite(s): BCT 117 and BCT 119.

BCT 219. Weatherization in Construction 3 Credits (2+2P)

Introduction to industry weatherization standards and practices utilized in the construction of buildings for the purpose of energy conservation. Economic and environmental impacts of the use of energy in heating and cooling building will be examined.

Prerequisite(s): BCT 101, BCT 102 and BCT 103.

BCT 221. Cooperative Experience I

1-4 Credits

Supervised cooperative work program. Student is employed in an approved occupation and is supervised and rated by the employer and instructor. Student will meet in a weekly class. Graded S/U.

Prerequisite: consent of instructor.

BCT 223. Residential Wiring II

3 Credits (2+3P)

Introduction to electrical raceways and fittings; electrical conductors and cables; basic electrical construction drawings, residential electrical services, and electrical test equipment. Restricted to Community Colleges campuses only.

Prerequisite(s): BCT 123.

BCT 255. Special Topics

1-6 Credits (1-6)

Topics to be announced in the Schedule of Classes. May be repeated up to 12 credits. Consent of Instructor required. Restricted to Community Colleges campuses only.

BCT 290. Special Problems in Building Technology

1-4 Credits

Individual studies in areas directly related to building technologies.

Prerequisite: consent of instructor.

Name: Chipper Moore, Department Chair

Office Location: DADM 200E

Phone: (575) 527-7592

Website: https://dacc.nmsu.edu/bct/

Building Construction Technology - Associate of Applied Science

Doña Ana Community College 2020-21 Catalog

(60 credits)

NOTE: Students must earn a final grade of C- or better in all required BCT and TCEN courses/Technical Requirements/Electives and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 60 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix Title Credits

General Education

Choose one course from four of the following six content areas for a total of 12-14 credits $^{1,\,2}$

This degree requires a course from Area I, students must select three courses from the remaining areas to complete General Education requirements. $^{\rm 1}$

Area I: Communications - English Composition Level 1

ENGL 1110G Composition I

Area II: Mathematics

COMM 1115G Introduction to Communication Core Requirement DETS 118 Mathematics for Technicians Major Requirements Technical Requirement Courses BCT 101 Introduction to Construction II 2 BCT 102 Introduction to Construction III 2 BCT 103 Introduction to Construction Laboratory 3 BCT 109 Plumbing I BCT 110 Blueprint Reading for Building Trades 4 BCT 114 Basic Carpentry 3 BCT 115 Carpentry Level I 3 BCT 116 Basic Carpentry Lab 2 BCT 116 Basic Carpentry Lab 2 BCT 130 Professional Development and Leadership 1 or BCT 150 Forklift Operation BCT 209 Plumbing II 3 BCT 217 Building and the Environment 3 Choose ONE of the following tracks of study: 12 Basic Solar Track TCEN 101 Energy for the Next Generation TCEN 110 Photovoltaic Application TCEN 205 NEC for Alternative Energy or OEET 110 Basic Electricity and Electronics Elective ARCT, BCT, DRFT, or TCEN Courses (1 credit) Energy Auditing Track BCT 219 Weatherization in Construction TCEN 105 Building Analyst I TCEN 106 Building Envelope	Total Credits		60
Area V. Humanities Area VI: Creative and Fine Arts General Education Elective - Area I: Communications - Oral Communications COMM 1115G Introduction to Communication Core Requirement DETS 118 Mathematics for Technicians Major Requirements Technical Requirement Courses BCT 101 Introduction to Construction I 2 BCT 102 Introduction to Construction II 2 BCT 103 Introduction to Construction Laboratory 3 BCT 109 Plumbing I 3 BCT 110 Blueprint Reading for Building Trades 4 BCT 114 Basic Carpentry 3 BCT 115 Carpentry Level I 3 BCT 116 Basic Carpentry Lab 2 BCT 110 Professional Development and Leadership or BCT 150 Forklift Operation BCT 209 Plumbing II 3 BCT 217 Building and the Environment 3 BCT 209 Plumbing II 3 BCT 217 Building and the Environment 3 BCT 205 NEC for Alternative Energy or OEET 110 Basic Electricity and Electronics Elective ARCT, BCT, DRFT, or TCEN Courses (1 credit) Energy Auditing Track BCT 219 Weatherization in Construction TCEN 105 Building Analyst II TCEN 106 Building Analyst II TCEN 106 Building Envelope General Building Track General Building Track General Building Track General Building Track General Building Track		, DRFT, or TCEN Courses (12 credits)	
Area V: Humanities Area VI: Creative and Fine Arts General Education Elective - Area I: Communications - Oral Communications COMM 1115G Introduction to Communication Core Requirement DETS 118 Mathematics for Technicians Major Requirements Technical Requirement Courses BCT 101 Introduction to Construction I 2 BCT 102 Introduction to Construction II 2 BCT 103 Introduction to Construction Laboratory 3 BCT 109 Plumbing I 3 BCT 110 Blueprint Reading for Building Trades 4 BCT 114 Basic Carpentry 3 BCT 115 Carpentry Level I 3 BCT 116 Basic Carpentry Lab 2 BCT 130 Professional Development and Leadership or BCT 150 Forklift Operation BCT 209 Plumbing II 3 BCT 217 Building and the Environment 3 Choose ONE of the following tracks of study: Basic Solar Track TCEN 101 Energy for the Next Generation TCEN 110 Photovoltaic Application TCEN 205 NEC for Alternative Energy or OEET 110 Basic Electricity and Electronics Elective ARCT, BCT, DRFT, or TCEN Courses (1 credit) Energy Auditing Track BCT 219 Weatherization in Construction TCEN 105 Building Analyst II TCEN 106 Building Envelope	General Building Track		
Area V: Humanities Area VI: Creative and Fine Arts General Education Elective - Area I: Communications - Oral Communications COMM 1115G Introduction to Communication Core Requirement DETS 118 Mathematics for Technicians Major Requirements Technical Requirement Courses BCT 101 Introduction to Construction I BCT 102 Introduction to Construction II BCT 103 Introduction to Construction II BCT 109 Plumbing I BCT 110 Blueprint Reading for Building Trades 4 BCT 114 Basic Carpentry BCT 115 Carpentry Level I BCT 116 Basic Carpentry Lab BCT 110 Professional Development and Leadership or BCT 150 Forklift Operation BCT 209 Plumbing II BCT 217 Building and the Environment Choose ONE of the following tracks of study: Basic Solar Track TCEN 101 Energy for the Next Generation TCEN 100 Photovoltaic Application TCEN 205 NEC for Alternative Energy or OEET 110 Basic Electricity and Electronics Elective ARCT, BCT, DRFT, or TCEN Courses (1 credit) Energy Auditing Track BCT 219 Weatherization in Construction TCEN 105 Building Analyst I TCEN 105 Building Analyst I TCEN 105 Building Analyst II		Building Envelope	
Area V: Humanities Area VI: Creative and Fine Arts General Education Elective - Area I: Communications - Oral Communications COMM 1115G Introduction to Communication Core Requirement DETS 118 Mathematics for Technicians Major Requirements Technical Requirement Courses BCT 101 Introduction to Construction I 22 BCT 102 Introduction to Construction II 23 BCT 103 Introduction to Construction II 26 BCT 109 Plumbing I BCT 110 Blueprint Reading for Building Trades 40 BCT 114 Basic Carpentry 30 BCT 115 Carpentry Level I 31 BCT 116 Basic Carpentry Lab BCT 116 Basic Carpentry Lab BCT 110 Professional Development and Leadership or BCT 150 Forklift Operation BCT 209 Plumbing II 30 BCT 217 Building and the Environment Choose ONE of the following tracks of study: 12 Basic Solar Track TCEN 101 Energy for the Next Generation TCEN 101 Energy for Application TCEN 205 NEC for Alternative Energy or OEET 110 Basic Electricity and Electronics Elective ARCT, BCT, DRFT, or TCEN Courses (1 credit) Energy Auditing Track BCT 219 Weatherization in Construction	TCEN 106	Building Analyst II	
Area V. Humanities Area VI: Creative and Fine Arts General Education Elective - Area I: Communications - Oral Communications COMM 1115G Introduction to Communication 3 Core Requirement DETS 118 Mathematics for Technicians 3 Major Requirements Technical Requirement Courses BCT 101 Introduction to Construction I 2 BCT 102 Introduction to Construction II 2 BCT 103 Introduction to Construction Laboratory 3 BCT 109 Plumbing I BCT 110 Blueprint Reading for Building Trades 4 BCT 114 Basic Carpentry 3 BCT 115 Carpentry Level I 3 BCT 116 Basic Carpentry Lab 2 BCT 116 Basic Carpentry Lab 2 BCT 110 Professional Development and Leadership or BCT 150 Forklift Operation BCT 209 Plumbing II 3 BCT 209 Plumbing II 3 BCT 217 Building and the Environment 3 Choose ONE of the following tracks of study: 12 Basic Solar Track TCEN 101 Energy for the Next Generation TCEN 110 Basic Electricity and Electronics Elective ARCT, BCT, DRFT, or TCEN Courses (1 credit) Energy Auditing Track	TCEN 105	Building Analyst I	
Area V: Humanities Area VI: Creative and Fine Arts General Education Elective - Area I: Communications - Oral Communications COMM 1115G Introduction to Communication Core Requirement DETS 118 Mathematics for Technicians Major Requirements Technical Requirement Courses BCT 101 Introduction to Construction I 20 BCT 102 Introduction to Construction II 21 BCT 103 Introduction to Construction II 22 BCT 109 Plumbing I BCT 110 Blueprint Reading for Building Trades 44 BCT 114 Basic Carpentry 30 BCT 115 Carpentry Level I 31 BCT 116 Basic Carpentry Lab 32 BCT 116 Basic Carpentry Lab 33 BCT 110 Professional Development and Leadership 34 BCT 110 Brown Introduction 35 BCT 209 Plumbing II 36 BCT 209 Plumbing II 37 BCT 209 Plumbing II 38 BCT 217 Building and the Environment 39 BCT 217 Building and the Environment 30 Choose ONE of the following tracks of study: Basic Solar Track TCEN 101 Energy for the Next Generation TCEN 205 NEC for Alternative Energy or OEET 110 Basic Electricity and Electronics Elective ARCT, BCT, DRFT, or TCEN Courses (1 credit)	BCT 219	Weatherization in Construction	
Area V: Humanities Area VI: Creative and Fine Arts General Education Elective - Area I: Communications - Oral Communications COMM 1115G Introduction to Communication Core Requirement DETS 118 Mathematics for Technicians Major Requirements Technical Requirement Courses BCT 101 Introduction to Construction I 2 BCT 102 Introduction to Construction II 2 BCT 103 Introduction to Construction Laboratory 3 BCT 109 Plumbing I BCT 110 Blueprint Reading for Building Trades 4 BCT 114 Basic Carpentry 3 BCT 115 Carpentry Level I 3 BCT 116 Basic Carpentry Lab 2 BCT 116 Basic Carpentry Lab 2 BCT 110 Professional Development and Leadership or BCT 150 Forklift Operation BCT 209 Plumbing II 3 BCT 217 Building and the Environment 3 Choose ONE of the following tracks of study: 12 Basic Solar Track TCEN 101 Energy for the Next Generation TCEN 101 Photovoltaic Application TCEN 205 NEC for Alternative Energy or OEET 110 Basic Electricity and Electronics	Energy Auditing Track		
Area V: Humanities Area VI: Creative and Fine Arts General Education Elective - Area I: Communications - Oral Communications COMM 1115G Introduction to Communication Core Requirement DETS 118 Mathematics for Technicians Major Requirements Technical Requirement Courses BCT 101 Introduction to Construction I 2 BCT 102 Introduction to Construction II 2 BCT 103 Introduction to Construction Laboratory 3 BCT 109 Plumbing I BCT 110 Blueprint Reading for Building Trades 4 BCT 114 Basic Carpentry 3 BCT 115 Carpentry Level I 3 BCT 116 Basic Carpentry Lab 2 BCT 116 Basic Carpentry Lab 2 BCT 130 Professional Development and Leadership or BCT 130 Professional Development and Leadership or BCT 150 Forklift Operation BCT 209 Plumbing II 3 BCT 217 Building and the Environment 3 Choose ONE of the following tracks of study: Basic Solar Track TCEN 101 Energy for the Next Generation TCEN 110 Photovoltaic Application TCEN 205 NEC for Alternative Energy	Elective ARCT, BCT,	, DRFT, or TCEN Courses (1 credit)	
Area V: Humanities Area VI: Creative and Fine Arts General Education Elective - Area I: Communications - Oral Communications COMM 1115G Introduction to Communication 33 Core Requirement DETS 118 Mathematics for Technicians 34 Major Requirements Technical Requirement Courses BCT 101 Introduction to Construction I 2 BCT 102 Introduction to Construction II 2 BCT 103 Introduction to Construction Laboratory 3 BCT 109 Plumbing I 3 BCT 110 Blueprint Reading for Building Trades 4 BCT 114 Basic Carpentry 3 BCT 115 Carpentry Level I 3 BCT 116 Basic Carpentry Lab 2 BCT 110 Professional Development and Leadership or BCT 130 Professional Development and Leadership or BCT 150 Forklift Operation BCT 209 Plumbing II 3 BCT 217 Building and the Environment 3 Choose ONE of the following tracks of study: 12 Basic Solar Track TCEN 101 Energy for the Next Generation TCEN 110 Photovoltaic Application	or OEET 110	Basic Electricity and Electronics	
Area V: Humanities Area VI: Creative and Fine Arts General Education Elective - Area I: Communications - Oral Communications COMM 1115G Introduction to Communication 30 Core Requirement DETS 118 Mathematics for Technicians 31 Major Requirements Technical Requirement Courses BCT 101 Introduction to Construction I 22 BCT 102 Introduction to Construction II 23 BCT 103 Introduction to Construction II 26 BCT 109 Plumbing I 30 BCT 110 Blueprint Reading for Building Trades 40 BCT 114 Basic Carpentry BCT 115 Carpentry Level I BCT 116 Basic Carpentry Lab BCT 116 Basic Carpentry Lab BCT 110 Forklift Operation BCT 209 Plumbing II 30 BCT 209 Plumbing II 31 BCT 209 Plumbing II 32 BCT 217 Building and the Environment 33 Choose ONE of the following tracks of study: Basic Solar Track TCEN 101 Energy for the Next Generation	TCEN 205	NEC for Alternative Energy	
Area V: Humanities Area VI: Creative and Fine Arts General Education Elective - Area I: Communications - Oral Communications COMM 1115G Introduction to Communication 33 Core Requirement DETS 118 Mathematics for Technicians 34 Major Requirements Technical Requirement Courses BCT 101 Introduction to Construction II 25 BCT 102 Introduction to Construction II 26 BCT 103 Introduction to Construction II 27 BCT 109 Plumbing I BCT 110 Blueprint Reading for Building Trades 48 BCT 114 Basic Carpentry BCT 115 Carpentry Level I BCT 116 Basic Carpentry Lab BCT 116 Basic Carpentry Lab BCT 110 Forklift Operation BCT 209 Plumbing II BCT 209 Plumbing II BCT 209 Plumbing II BCT 209 Plumbing II BCT 217 Building and the Environment Choose ONE of the following tracks of study: 12 Basic Solar Track	TCEN 110	Photovoltaic Application	
Area V: Humanities Area VI: Creative and Fine Arts General Education Elective - Area I: Communications - Oral Communications COMM 1115G Introduction to Communication General Educations Communications Communications Core Requirement DETS 118 Mathematics for Technicians Major Requirements Technical Requirement Courses BCT 101 Introduction to Construction I 20 BCT 102 Introduction to Construction II 21 BCT 103 Introduction to Construction Laboratory 32 BCT 109 Plumbing I 33 BCT 110 Blueprint Reading for Building Trades 40 BCT 114 Basic Carpentry 30 BCT 115 Carpentry Level I 31 BCT 116 Basic Carpentry Lab BCT 110 Professional Development and Leadership or BCT 150 Forklift Operation BCT 209 Plumbing II BCT 217 Building and the Environment Choose ONE of the following tracks of study:	TCEN 101	Energy for the Next Generation	
Area V: Humanities Area VI: Creative and Fine Arts General Education Elective - Area I: Communications - Oral Communications COMM 1115G Introduction to Communication 3 Core Requirement DETS 118 Mathematics for Technicians 3 Major Requirements Technical Requirement Courses BCT 101 Introduction to Construction I 2 BCT 102 Introduction to Construction II 2 BCT 103 Introduction to Construction Laboratory 3 BCT 109 Plumbing I 3 BCT 110 Blueprint Reading for Building Trades 4 BCT 114 Basic Carpentry 3 BCT 115 Carpentry Level I 3 BCT 116 Basic Carpentry Lab 2 BCT 130 Professional Development and Leadership or BCT 150 Forklift Operation BCT 209 Plumbing II 3 BCT 209 Plumbing II 3 BCT 209 Plumbing II 3 BCT 217 Building and the Environment 3	Basic Solar Track		
Area V: Humanities Area VI: Creative and Fine Arts General Education Elective - Area I: Communications - Oral Communications COMM 1115G Introduction to Communication 3 Core Requirement DETS 118 Mathematics for Technicians 3 Major Requirements Technical Requirement Courses BCT 101 Introduction to Construction I 2 BCT 102 Introduction to Construction II 2 BCT 103 Introduction to Construction Laboratory 3 BCT 109 Plumbing I 3 BCT 110 Blueprint Reading for Building Trades 4 BCT 114 Basic Carpentry 3 BCT 115 Carpentry Level I 3 BCT 116 Basic Carpentry Lab 2 BCT 130 Professional Development and Leadership or BCT 150 Forklift Operation BCT 209 Plumbing II 3	Choose ONE of the fol	llowing tracks of study:	12
Area V: Humanities Area VI: Creative and Fine Arts General Education Elective - Area I: Communications - Oral Communications COMM 1115G Introduction to Communication 3 Core Requirement DETS 118 Mathematics for Technicians 3 Major Requirements Technical Requirement Courses BCT 101 Introduction to Construction I 2 BCT 102 Introduction to Construction II 2 BCT 103 Introduction to Construction Laboratory 3 BCT 109 Plumbing I 3 BCT 110 Blueprint Reading for Building Trades 4 BCT 114 Basic Carpentry 3 BCT 115 Carpentry Level I 3 BCT 116 Basic Carpentry Lab 2 BCT 130 Professional Development and Leadership or BCT 150 Forklift Operation	BCT 217	Building and the Environment	3
Area V: Humanities Area VI: Creative and Fine Arts General Education Elective - Area I: Communications - Oral Communications COMM 1115G Introduction to Communication 33 Core Requirement DETS 118 Mathematics for Technicians 34 Major Requirements Technical Requirement Courses BCT 101 Introduction to Construction I 25 BCT 102 Introduction to Construction II 26 BCT 103 Introduction to Construction II 27 BCT 109 Plumbing I 28 BCT 110 Blueprint Reading for Building Trades 48 BCT 114 Basic Carpentry BCT 115 Carpentry Level I BCT 116 Basic Carpentry Lab BCT 116 Basic Carpentry Lab Professional Development and Leadership	BCT 209	Plumbing II	3
Area V: Humanities Area VI: Creative and Fine Arts General Education Elective - Area I: Communications - Oral Communications COMM 1115G Introduction to Communication 3 Core Requirement DETS 118 Mathematics for Technicians 3 Major Requirements Technical Requirement Courses BCT 101 Introduction to Construction I 2 BCT 102 Introduction to Construction II 2 BCT 103 Introduction to Construction II 2 BCT 109 Plumbing I 3 BCT 110 Blueprint Reading for Building Trades 4 BCT 114 Basic Carpentry BCT 115 Carpentry Level I 3 BCT 116 Basic Carpentry Lab 2	or BCT 150	Forklift Operation	
Area V: Humanities Area VI: Creative and Fine Arts General Education Elective - Area I: Communications - Oral Communications COMM 1115G Introduction to Communication 3 Core Requirement DETS 118 Mathematics for Technicians 3 Major Requirements Technical Requirement Courses BCT 101 Introduction to Construction I 2 BCT 102 Introduction to Construction II 2 BCT 103 Introduction to Construction II 2 BCT 109 Plumbing I 3 BCT 110 Blueprint Reading for Building Trades 4 BCT 114 Basic Carpentry 3 BCT 115 Carpentry Level I 3	BCT 130	Professional Development and Leadership	1
Area V: Humanities Area VI: Creative and Fine Arts General Education Elective - Area I: Communications - Oral Communications COMM 1115G Introduction to Communication 3 Core Requirement DETS 118 Mathematics for Technicians 3 Major Requirements Technical Requirement Courses BCT 101 Introduction to Construction I 2 BCT 102 Introduction to Construction II 2 BCT 103 Introduction to Construction Laboratory 3 BCT 109 Plumbing I 3 BCT 110 Blueprint Reading for Building Trades 4 BCT 114 Basic Carpentry 3	BCT 116	Basic Carpentry Lab	2
Area V: Humanities Area VI: Creative and Fine Arts General Education Elective - Area I: Communications - Oral Communications COMM 1115G Introduction to Communication 3 Core Requirement DETS 118 Mathematics for Technicians 3 Major Requirements Technical Requirement Courses BCT 101 Introduction to Construction I 2 BCT 102 Introduction to Construction II 2 BCT 103 Introduction to Construction Laboratory 3 BCT 109 Plumbing I 3 BCT 110 Blueprint Reading for Building Trades 4	BCT 115	Carpentry Level I	3
Area V: Humanities Area VI: Creative and Fine Arts General Education Elective - Area I: Communications - Oral Communications COMM 1115G Introduction to Communication 3 Core Requirement DETS 118 Mathematics for Technicians 3 Major Requirements Technical Requirement Courses BCT 101 Introduction to Construction I 2 BCT 102 Introduction to Construction II 2 BCT 103 Introduction to Construction Laboratory 3 BCT 109 Plumbing I 3	BCT 114	Basic Carpentry	3
Area V: Humanities Area VI: Creative and Fine Arts General Education Elective - Area I: Communications - Oral Communications COMM 1115G Introduction to Communication 3 Core Requirement DETS 118 Mathematics for Technicians 3 Major Requirements Technical Requirement Courses BCT 101 Introduction to Construction I 2 BCT 102 Introduction to Construction II 2 BCT 103 Introduction to Construction Laboratory 3	BCT 110	Blueprint Reading for Building Trades	4
Area V: Humanities Area VI: Creative and Fine Arts General Education Elective - Area I: Communications - Oral Communications COMM 1115G Introduction to Communication 3 Core Requirement DETS 118 Mathematics for Technicians 3 Major Requirements Technical Requirement Courses BCT 101 Introduction to Construction I 2 BCT 102 Introduction to Construction II 2	BCT 109	Plumbing I	3
Area V: Humanities Area VI: Creative and Fine Arts General Education Elective - Area I: Communications - Oral Communications COMM 1115G Introduction to Communication 3 Core Requirement DETS 118 Mathematics for Technicians 3 Major Requirements Technical Requirement Courses BCT 101 Introduction to Construction I 2	BCT 103	Introduction to Construction Laboratory	3
Area V: Humanities Area VI: Creative and Fine Arts General Education Elective - Area I: Communications - Oral Communications COMM 1115G Introduction to Communication 3 Core Requirement DETS 118 Mathematics for Technicians 3 Major Requirements Technical Requirement Courses	BCT 102	Introduction to Construction II	2
Area V: Humanities Area VI: Creative and Fine Arts General Education Elective - Area I: Communications - Oral Communications COMM 1115G Introduction to Communication 3 Core Requirement DETS 118 Mathematics for Technicians 3 Major Requirements	BCT 101	Introduction to Construction I	2
Area V: Humanities Area VI: Creative and Fine Arts General Education Elective - Area I: Communications - Oral Communications COMM 1115G Introduction to Communication 3 Core Requirement DETS 118 Mathematics for Technicians 3	Technical Requirement	Courses	
Area V: Humanities Area VI: Creative and Fine Arts General Education Elective - Area I: Communications - Oral Communications COMM 1115G Introduction to Communication 3 Core Requirement	Major Requirements		
Area V: Humanities Area VI: Creative and Fine Arts General Education Elective - Area I: Communications - Oral Communications COMM 1115G Introduction to Communication 3	OETS 118	Mathematics for Technicians	3
Area V: Humanities Area VI: Creative and Fine Arts General Education Elective - Area I: Communications - Oral Communications	Core Requirement		
Area V: Humanities Area VI: Creative and Fine Arts General Education Elective - Area I: Communications - Oral	Communications COMM 1115G	Introduction to Communication	3
Area V. Humanities	General Education Elec	tive - Area I: Communications - Oral	
	Area VI: Creative ar	nd Fine Arts	
Area IV: Social/Behavioral Sciences	Area V: Humanities	3	
	Area IV: Social/Beh	navioral Sciences	
Area III: Laboratory Sciences	Alea III. Laboratory	OCICIOCO	

- Each course selected must be from a different area and students cannot take multiple courses in the same area.
- See the <u>General Education</u> (p. 52) section of the catalog for a full list of courses.

(60-62 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must earn a final grade of *C*- or better in all BCT and TCEN courses, and achieve a cumulative grade-point average of at least 2.0. A grade of *C*- or better is required in ENGL 1110G Composition I.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at

least 60 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

0	Title	Credits
Semester 1	tions Facilish Occurs siting Local L	
ENGL 1110G	tions - English Composition Level I	4
BCT 101	Composition I Introduction to Construction I	2
BCT 102	Introduction to Construction II	2
BCT 102	Introduction to Construction II	3
BCT 130	Professional Development and Leadership	1
or BCT 150	or Forklift Operation	'
OETS 118	Mathematics for Technicians	3
	Credits	15
Semester 2		
General Education Communications	Elective - Area I: Communications - Oral	3
COMM 1115G	Introduction to Communication	
BCT 114	Basic Carpentry	3
BCT 115	Carpentry Level I	3
BCT 116	Basic Carpentry Lab	2
BCT 109	Plumbing I	3
	Credits	14
Semester 3		
	from different NM General Education Areas II, III, IV, 4 courses from different areas are required.	6-8
track below (total o	ect one track) - Choose one course from selected of 12 credits needed to complete each track).	3
Basic Solar Track		
TCEN 101	Energy for the Next Generation	
TCEN 110	Photovoltaic Application	
TCEN 205 or OEET 110	NEC for Alternative Energy or Basic Electricity and Electronics	
	BCT, DRFT, or TCEN course (1 credit)	
Energy Auditing Tra		
BCT 219	Weatherization in Construction	
	Troutienzation in contraction	
TCFN 105	Building Analyst I	
TCEN 105 TCEN 106	Building Analyst I Building Analyst II	
TCEN 106	Building Analyst II	
TCEN 106 TCEN 156	Building Analyst II Building Envelope	
TCEN 106 TCEN 156 General Building Tr	Building Analyst II Building Envelope ack	
TCEN 106 TCEN 156 General Building Tr	Building Analyst II Building Envelope	4
TCEN 106 TCEN 156 General Building Tr Elective ARCT, B	Building Analyst II Building Envelope ack BCT, DRFT, or TCEN courses (12 credits)	
TCEN 106 TCEN 156 General Building Tr Elective ARCT, B BCT 110	Building Analyst II Building Envelope ack BCT, DRFT, or TCEN courses (12 credits) Blueprint Reading for Building Trades	3
TCEN 106 TCEN 156 General Building Tr Elective ARCT, B BCT 110	Building Analyst II Building Envelope ack BCT, DRFT, or TCEN courses (12 credits) Blueprint Reading for Building Trades Plumbing II	3
TCEN 106 TCEN 156 General Building Tr Elective ARCT, B BCT 110 BCT 209 Semester 4 Select one course f	Building Analyst II Building Envelope ack BCT, DRFT, or TCEN courses (12 credits) Blueprint Reading for Building Trades Plumbing II Credits from different NM General Education Areas II, III, IV,	16-18
TCEN 106 TCEN 156 General Building Tr Elective ARCT, B BCT 110 BCT 209 Semester 4 Select one course f	Building Analyst II Building Envelope ack BCT, DRFT, or TCEN courses (12 credits) Blueprint Reading for Building Trades Plumbing II Credits	16-18 3
TCEN 106 TCEN 156 General Building Tr Elective ARCT, B BCT 110 BCT 209 Semester 4 Select one course f V, and VI. A total of BCT 217	Building Analyst II Building Envelope ack CCT, DRFT, or TCEN courses (12 credits) Blueprint Reading for Building Trades Plumbing II Credits from different NM General Education Areas II, III, IV, 4 courses from different areas are required.	16-18 3
TCEN 106 TCEN 156 General Building Tr Elective ARCT, B BCT 110 BCT 209 Semester 4 Select one course f V, and VI. A total of BCT 217 Track Course - Cho	Building Analyst II Building Envelope ack CCT, DRFT, or TCEN courses (12 credits) Blueprint Reading for Building Trades Plumbing II Credits from different NM General Education Areas II, III, IV, 4 courses from different areas are required. Building and the Environment	3 16-18 3
TCEN 106 TCEN 156 General Building Tr Elective ARCT, B BCT 110 BCT 209 Semester 4 Select one course f V, and VI. A total of BCT 217 Track Course - Cho	Building Analyst II Building Envelope ack CT, DRFT, or TCEN courses (12 credits) Blueprint Reading for Building Trades Plumbing II Credits from different NM General Education Areas II, III, IV, 4 courses from different areas are required. Building and the Environment ose one course from the list in Semester 3.	3 16-18 3 3 3
TCEN 106 TCEN 156 General Building Tr Elective ARCT, B BCT 110 BCT 209 Semester 4 Select one course f V, and VI. A total of BCT 217 Track Course - Cho	Building Analyst II Building Envelope ack BCT, DRFT, or TCEN courses (12 credits) Blueprint Reading for Building Trades Plumbing II Credits from different NM General Education Areas II, III, IV, 4 courses from different areas are required. Building and the Environment ose one course from the list in Semester 3.	4 3 16-18 3 3 3 3

Building Construction Technology - Certificate of Completion

Doña Ana Community College 2020-21 Catalog

(43-44 credits)

NOTE: Students must earn a final grade of *C*- or better in all BCT, DRFT, OETS, and TCEN courses, and achieve a cumulative grade-point average of at least 2.0.

Students must complete all University certificate requirements to total at least 43-44 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
Related Requirement	s	
OETS 104	Basic Mathematics for Technicians	3-4
or OETS 118	Mathematics for Technicians	
Technical Requireme	nts	
BCT 101	Introduction to Construction I	2
BCT 102	Introduction to Construction II	2
BCT 103	Introduction to Construction Laboratory	3
BCT 109	Plumbing I	3
BCT 110	Blueprint Reading for Building Trades	4
BCT 114	Basic Carpentry	3
BCT 115	Carpentry Level I	3
BCT 116	Basic Carpentry Lab	2
BCT 217	Building and the Environment	3
TCEN 105	Building Analyst I	3
TCEN 106	Building Analyst II	3
Technical Electives		
Select 6 credits from	the following:	6
BCT 209	Plumbing II	
DRFT 109	Computer Drafting Fundamentals	
TCEN 156	Building Envelope	
Advisor approved BC	T or TCEN elective	3
Total Credits		43-44

(43-44 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must earn a final grade of *C*- or better in all BCT, DRFT, OETS, and TCEN courses, and achieve a cumulative grade-point average of at least 2.0.

Students must complete all University certificate requirements to total at least 43 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course	Title	Credits
Semester 1		
BCT 101	Introduction to Construction I	2
BCT 102	Introduction to Construction II	2

BCT 103	Introduction to Construction Laboratory	3
OETS 104	Basic Mathematics for Technicians	3-4
or OETS 118	or Mathematics for Technicians	
Technical Elective		3
BCT 209	Plumbing II	
or DRFT 109	or Computer Drafting Fundamentals	
or TCEN 156	or Building Envelope	
	Credits	13-14
Semester 2		
BCT 109	Plumbing I	3
BCT 110	Blueprint Reading for Building Trades	4
BCT 114	Basic Carpentry	3
BCT 115	Carpentry Level I	3
BCT 116	Basic Carpentry Lab	2
TCEN 105	Building Analyst I	3
	Credits	18
Semester 3		
BCT 217	Building and the Environment	3
TCEN 106	Building Analyst II	3
Technical Elective		3
BCT 209	Plumbing II	
or DRFT 109	or Computer Drafting Fundamentals	
or TCEN 156	or Building Envelope	
Advisor approved BCT	or TCEN elective	3
	Credits	12
	Total Credits	43-44

Basic Residential Wiring - Certificate of Completion

Doña Ana Community College 2020-21 Catalog

(17 credits)

NOTE: Students must earn a final grade of *C*- or better in all required BCT courses, and achieve a cumulative grade-point average of at least 2.0.

Students must complete all University certificate requirements to total at least 17 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
BCT 101	Introduction to Construction I	2
BCT 102	Introduction to Construction II	2
BCT 103	Introduction to Construction Laboratory	3
BCT 110	Blueprint Reading for Building Trades	4
BCT 123	Residential Wiring I	3
BCT 223	Residential Wiring II	3
Total Credits		17

(17 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to

create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must earn a final grade of *C*- or better in all required BCT courses, and achieve a cumulative grade-point average of at least 2.0.

Students must complete all University certificate requirements to total at least 17 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course	Title	Credits
First Year		
Fall		
BCT 101	Introduction to Construction I	2
BCT 102	Introduction to Construction II	2
BCT 103	Introduction to Construction Laboratory	3
BCT 123	Residential Wiring I	3
	Credits	10
Spring		
BCT 110	Blueprint Reading for Building Trades	4
BCT 223	Residential Wiring II	3
	Credits	7
	Total Credits	17

Basic Solar - Certificate of Completion

Doña Ana Community College 2020-21 Catalog

(22 credits)

NOTE: Students must earn a final grade of *C*- or better in all BCT, OEET, and TCEN courses, and achieve a cumulative grade-point average of at least 2.0.

Students must complete all University certificate requirements to total at least 22 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
BCT 101	Introduction to Construction I	2
BCT 102	Introduction to Construction II	2
BCT 103	Introduction to Construction Laboratory	3
BCT 110	Blueprint Reading for Building Trades	4
TCEN 101	Energy for the Next Generation	3
TCEN 110	Photovoltaic Application	4
TCEN 205	NEC for Alternative Energy	4
or OEET 110	Basic Electricity and Electronics	
Total Credits		22

(22 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to

create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must earn a final grade of *C*- or better in all required BCT, OEET, and TCEN courses, and achieve a cumulative grade-point average of at least 2.0.

Students must complete all University certificate requirements to total at least 22 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course	Title	Credits
Semester 1		
BCT 101	Introduction to Construction I	2
BCT 102	Introduction to Construction II	2
BCT 103	Introduction to Construction Laboratory	3
BCT 110	Blueprint Reading for Building Trades	4
TCEN 101	Energy for the Next Generation	3
	Credits	14
Semester 2		
TCEN 110	Photovoltaic Application	4
TCEN 205 or OEET 110	NEC for Alternative Energy or Basic Electricity and Electronics	4
	Credits	8
	Total Credits	22

Energy Auditing - Certificate of Completion

Doña Ana Community College 2020-21 Catalog

(23 credits)

NOTE: Students must earn a final grade of *C*- or better in all BCT and TCEN courses, and achieve a cumulative grade-point average of at least 2.0.

Students must complete all University certificate requirements to total at least 23 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
BCT 101	Introduction to Construction I	2
BCT 102	Introduction to Construction II	2
BCT 103	Introduction to Construction Laboratory	3
BCT 110	Blueprint Reading for Building Trades	4
BCT 219	Weatherization in Construction	3
TCEN 105	Building Analyst I	3
TCEN 106	Building Analyst II	3
TCEN 156	Building Envelope	3
Total Credits		23

(23 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student

academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must earn a final grade of *C*- or better in all BCT and TCEN courses, and achieve a cumulative grade-point average of at least 2.0

Students must complete all University certificate requirements to total at least 23 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course	Title	Credits
Semester 1		
BCT 101	Introduction to Construction I	2
BCT 102	Introduction to Construction II	2
BCT 103	Introduction to Construction Laboratory	3
BCT 110	Blueprint Reading for Building Trades	4
BCT 219	Weatherization in Construction	3
	Credits	14
Semester 2		
TCEN 105	Building Analyst I	3
TCEN 106	Building Analyst II	3
TCEN 156	Building Envelope	3
	Credits	9
	Total Credits	23

Plumbing - Certificate of Completion Doña Ana Community College 2020-21 Catalog

(17 credits)

NOTE: Students must earn a final grade of *C*- or better in all BCT courses, and achieve a cumulative grade-point average of at least 2.0.

Students must complete all University certificate requirements to total at least 17 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
BCT 101	Introduction to Construction I	2
BCT 102	Introduction to Construction II	2
BCT 103	Introduction to Construction Laboratory	3
BCT 110	Blueprint Reading for Building Trades	4
BCT 109	Plumbing I	3
BCT 209	Plumbing II	3
Total Credits		17

(17 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must earn a final grade of *C*- or better in all BCT courses, and achieve a cumulative grade-point average of at least 2.0.

Students must complete all University certificate requirements to total at least 17 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course	Title	Credits
Semester 1		
BCT 101	Introduction to Construction I	2
BCT 102	Introduction to Construction II	2
BCT 103	Introduction to Construction Laboratory	3
BCT 110	Blueprint Reading for Building Trades	4
BCT 109	Plumbing I	3
BCT 209	Plumbing II	3
	Credits	17
	Total Credits	17

Business Management

Associate of Business Occupations Degree

- Finance and Banking Services Concentration
- General Management Concentration
- · Retail Marketing and Sales Concentration

Certificates of Completion

- General
- · Business Fundamentals
- Advertising Representative

If you've always wanted to work in the fast-paced world of business, the Business Management program at DACC is your ticket to success. The Business Management program meets the need for supervisors and managers that continues to grow in business organizations, and our students are filling those positions. The experience and education you receive through the Business Management program prepares you to assume the responsibility of supervising and managing business operations.

The Business Management program, through a curriculum of practical training courses, general education courses, and selected elective classes that target a specific industry or business, can help prepare you for an entry-level supervisory or management position. You may take courses as diverse as Introduction to Supervision, Business Law, Economics, Computer Spreadsheet Applications, and Business Finance.

The program also includes twelve credit hours of electives, allowing you to customize your course of study and concentrate in a particular instructional area. You may choose courses from three concentrations.

- · General Management
- · Retail Marketing and Sales
- · Finance and Banking

You also may customize an option by seeking advice from a faculty member to plan a series of elective courses that match your interest and career goals. Graduates of the Business Management program can apply most of their courses toward either of two bachelor's degree programs at NMSU:

- agricultural economics and agricultural business (offered by the College of Agricultural, Consumer, and Environmental Sciences), or
- applied studies (offered by the College of Arts and Sciences).

Business Management - Associate of Business Occupations (p. 138)

Advertising Representative - Certificate of Achievement (p. 136)

Business Fundamentals - Certificate of Completion (p. 136)

General Business Management - Certificate of Completion (p. 137)

Specific Concentration Coursework

<u>Business Management (Finance & Banking) - Associate of Business Occupations</u> (p. 140)

<u>Business Management (General Management) - Associate of Business Occupations</u> (p. 141)

<u>Business Management (Retail Marketing & Sales) - Associate of Business Occupations</u> (p. 142)

BMGT 112. Banks and Your Money

3 Credits (3)

Banking in today's economy: language and documents of banking, check processing, teller functions, deposit function, trust services, bank bookkeeping, loans, and investments. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

BMGT 126. Retail Management

3 Credits (3)

Phases of retailing, including types of retail outlets and basic problems of organizing and operating a retail store. Restricted to: Community Colleges only.

BMGT 132. Principles of Selling

3 Credits (3)

Analysis of customer behavior, persuasive communication, process of the sales interview. Restricted to: Community Colleges only.

BMGT 136. Forecasting Business Activity

3 Credits (3)

Course covers the important elements of forecasting all types of business activities including inventory control, revenue forecasts, staffing, and other industry specific activities using metrics and data analysis processes. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): BUSA 1110.

BMGT 138. Advertising

3 Credits (3)

Psychological approach to non-personal consumer persuasion; applied techniques in media selection, layout mechanics, production methods, and campaign structures. Restricted to: Community Colleges only.

BMGT 140. Principles of Supervision I

3 Credits (3)

Principles of supervision emphasizing planning, organization, rating of employees and procedures to develop good morale. Introduction to interpretation of case studies. Restricted to: Community Colleges only.

BMGT 150. Income Taxation

3 Credits (3)

Federal income taxation of individuals, sole proprietorships, partnerships, corporations, trusts, and estates with particular reference to CLU, life insurance and annuities. Restricted to: Community Colleges only.

BMGT 155. Special Topics I

1-3 Credits (1-3)

Introductory special topics of lower division level work that provides a variety of timely subjects and content material. May be repeated up to 9 credits. Restricted to Community Colleges campuses only.

BMGT 160. Self-Presentation and Etiquette

3 Credits (3)

Introduction to business etiquette based on tradition, social expectations, and professional behavior standards. Restricted to: Community Colleges only.

BMGT 201. Work Readiness and Preparation

3 Credits (3)

Instruction in methods of selection, seeking, acquiring and retaining employment. Addresses work success skills, business etiquette, employer expectation and workplace norms. Restricted to Community Colleges campuses only.

BMGT 205. Customer Service in Business

3 Credits (3)

Establishes concepts of service quality in relationship to business success and maximization of returns to the organization. Explores techniques for delivering quality and service in a variety of business settings. Restricted to: Community Colleges only.

BMGT 208. Business Ethics

3 Credits (3)

The course examines the underlying dimensions of ethics in business, investigating ethics in relationship to the organization, the stakeholders, and society. Exploration of ethical issues from a historical context, analyzing actual events through the lens of business decision making, including legal/political, sociocultural, economic, and environmental considerations will be undertaken. Restricted to Community Colleges campuses only.

BMGT 216. Business Math

3 Credits (3)

Application of basic mathematical procedures to business situations, including percentage formula applications, markup, statement analysis, simple and compound interest, and annuities. Restricted to: Community Colleges only.

Prerequisite(s): CCDM 103 N or satisfactory math score on ACT.

BMGT 221. Internship I

1-3 Credits (1-3)

Work experience that directly relates to a student's major field of study that provides the student an opportunity to explore career paths and apply knowledge and theory learned in the classroom. Internships may be paid or unpaid. Students are supervised/evaluated by both the employer and instructor. May be repeated up to 3 credits. Consent of Instructor required. Restricted to: BMGT majors. Graded: S/U Grading (S/U, Audit). Restricted to Community Colleges campuses only.

BMGT 225. Introduction to Commercial Lending

3 Credits (3

Commercial lending overview, the lending process, portfolio management, and regulation and business development. Restricted to: Community Colleges only.

Prerequisite(s): BMGT 112.

BMGT 232. Personal Finance

3 Credits (3)

Budgeting, saving, credit, installment buying, insurance, buying vs. renting a home, income tax statement preparation, investment, and estate disposal through will and trust. Restricted to: Community Colleges only.

BMGT 236. Small Business Start-Up

3 Credits (3)

Starting a small business is a complex endeavor that requires specialized knowledge. This course prepares students to take the first step in business ownership and operations. Restricted to Community Colleges campuses

BMGT 237. Managing Small Businesses

3 Credits (3)

Managing a small business requires the owner/operator to be proficient in a number of skills and technical areas. This course provides small business owners/operators with the training and essential knowledge to manage a small business. Restricted to Community Colleges campuses

BMGT 240. Human Relations

3 Credits (3)

Human interactions in business and industrial settings. Motivation and learning experiences as related to problems of the worker and supervisor. Practical applications of human behavior. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

BMGT 247. Customer Relationship Management 3 Credits (3)

The course addresses the application of positive customer relationship practices and demonstrates the connection between managing excellent customer experiences and business success. Customer related decision making processes through the use of data based decision matrices are introduced. Restricted to Community Colleges campuses

BMGT 248. Introduction to Quality Management 3 Credits (3)

Introductory practices of total quality management practices aimed at all levels of an organization to continually improve performance to include competitiveness in today s business world. Restricted to: Community Colleges only.

BMGT 250. Diversity in the Workplace

3 Credits (3)

Concepts of culture, diversity, prejudice, and discrimination within the domestic workforce/society. Restricted to Community Colleges campuses only.

Prerequisite(s): BUSA 1110. BMGT 260. Real Estate Practice

3 Credits (3)

This course is a requirement for licensure in real estate for the state of New Mexico. Topics covered include: real estate finance, settlement, foreclosure, federal taxation, valuation and appraisal, land descriptions and math skills. These topics are requirements of the New Mexico Real Estate Commission. Restricted to: Community Colleges only.

BMGT 264. Real Estate Law

3 Credits (3)

This course is a requirement for licensure in real estate for the state of New Mexico. Topics covered include: ownership of real estate, real estate brokerage relationships, contracts, environmental concerns and federal laws that affect real estate. These topics are requirements of the New Mexico Real Estate Commission. Restricted to: Community Colleges only. Crosslisted with: PL S 264

BMGT 272. E-Commerce Operations

3 Credits (3)

Includes the many forms of e-commerce and emerging technologies that will impact the business of tomorrow. Restricted to Community Colleges campuses only.

Prerequisite(s): OECS 105 or BCIS 1110.

BMGT 277. Entrepreneurship II - Small Business Management 3 Credits (3)

This course is designed to acquaint the student with the opportunities encountered in the management and operations of a small business enterprise. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): ENTR 1110.

BMGT 280. Introduction to Human Resources

3 Credits (3)

Personnel functions encompassing job analysis, recruitment, selection, training, appraisals, discipline, and terminations. Prerequisite(S): BUSA 1110 or B A 104. Restricted to Community Colleges campuses only.

BMGT 282. Introduction to International Business Management 3 Credits (3)

Overview of the social, economic and cultural environment of international business transactions. Restricted to Community Colleges only.

Prerequisite(s): BUSA 1110.

BMGT 285. Introduction to Manufacturing Operations 3 Credits (3)

Introduction to issues related to manufacturing, including an overview of the production function, product design and development, location, layout, forecasting, planning, purchasing, materials/inventory, and quality management. Restricted to Community Colleges campuses only.

Prerequisite(s): BUSA 1110 and (BMGT 140 or MGMT 2110).

BMGT 286. Introduction to Logistics

3 Credits (3)

Overview on the planning, organizing, and controlling of transportation, inventory maintenance, order processing, purchasing, warehousing, materials, handling, packaging, customer service standards, and product scheduling. Restricted to: Community Colleges only.

BMGT 287. Introduction to Export/Import

3 Credits (3)

Procedures and documentation for exporting and importing products. Emphasis on NAFTA regulations and other U.S. border operations crossings. Restricted to Community Colleges only.

Prerequisite(s): BUSA 1110.

BMGT 290. Applied Business Capstone 3 Credits (3)

Refines skills and validates courses taken in BMGT program. Business simulations, case studies and projects used to test and improve business practices. Student must be within 25 credits of graduation. May be repeated up to 3 credits. Restricted to: BMGT majors. Restricted to Community Colleges campuses only.

Prerequisite(s): BUSA 1110, and (BMGT 140 or MGMT 2110), and (BMGT 240 or SOCI 1110G or PSYC 1110G), and MKTG 2110 and BFIN 2110.

BMGT 298. Independent Study

3 Credits (3)

Individual studies directed by consenting faculty with prior approval of department chair. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): Sophomore standing with 3.0 GPA.

BUSA 1110. Intro to Business

3 Credits (3)

Fundamental concepts and terminology of business including areas such as management, marketing, accounting, economics, personnel, and finance; and the global environment in which they operate.

BLAW 2110. Business Law I

3 Credits (3)

Survey of the legal environment of business and common legal principles including: the sources of law, dispute resolution and the U.S. court systems, administrative law, tort law, contract law, agency and employment law, business structure and governance, ethics and corporate social responsibility. Explores sources of liability and presents strategies to minimize legal risk. Offered at all NMSU Community Colleges except Dona Ana Community College. Credit may not be earned in both BLAW 2110 and BLAW 317.

ENTR 1110. Entrepreneurship

3 Credits (3)

Introduces students to the concept of entrepreneurship and to the process of business startups.

Prerequisite(s): BUSA 1110.

MKTG 2110. Principles of Marketing

3 Credits (3)

Survey of modern marketing concepts and practices focusing on the marketing mix: product, pricing, promotion, and distribution strategies. Topics include: the marketing environment, consumer behavior, marketing research, target marketing, and the ethical and social responsibilities of marketers. May be repeated up to 3 credits.

Prerequisite(s): BUSA 1110.

Name: Kim Seifert, Department Chair

Office Location: DAEM 100G

Phone: (575) 527-7640

Website: http://dacc.nmsu.edu/bmgt
Name: Erica Enriquez, Teaching Tech

Office Location: DAEM 100J

Phone: (575) 528-7277

Advertising Representative - Certificate of Achievement

Doña Ana Community College 2020-21 Catalog

(15 credits)

NOTE: If declared as a major, this certificate program is not eligible for financial aid.

NOTE: Students must earn a final grade of C- or better in all required Technical Requirements courses and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University certificate requirements to total at least 15 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
Technical Require	ments	
BMGT 132	Principles of Selling	3
BMGT 138	Advertising	3
MKTG 2110	Principles of Marketing ¹	3
FDMA 1120	Desktop Publishing	3
FDMA 1630	Principles of Design	3
Total Credits		15

Courses are identical to those offered at New Mexico State University Las Cruces (main) Campus.

(15 credits)

NOTE: If declared as a major, this certificate program is not eligible for financial aid.

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must earn a final grade of C- or better in all required Technical Requirements courses and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University certificate requirements to total at least 15 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course	Title	Credits
Semester 1		
BMGT 132	Principles of Selling	3
BMGT 138	Advertising	3
FDMA 1120	Desktop Publishing	3
FDMA 1630	Principles of Design	3
MKTG 2110	Principles of Marketing	3
	Credits	15
	Total Credits	15

Business Fundamentals - Certificate of Completion

Doña Ana Community College 2020-21 Catalog

(16 credits)

NOTE: Students must earn a final grade of C- or better in all required Technical Requirements courses and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University certificate requirements, which include: General Education requirements and elective credits to total at least 16 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
Technical Requirem	ents	
Area I: Communicat	ions - English Compostition Level 1	
ENGL 1110G	Composition I 1, 2	4
BUSA 1110	Intro to Business	3
Choose one from the	e following:	3
OATS 106	Business Mathematics	
MATH 1215	Intermediate Algebra ¹	
MATH 1220G	College Algebra ¹	
MATH 1130G	Survey of Mathematics ¹	
Choose one from the	e following:	3
BMGT 240	Human Relations	
PSYC 1110G	Introduction to Psychology 1	
SOCI 1110G	Introduction to Sociology 1	
Choose one from the	e following:	3
BFIN 2110	Introduction to Finance 1	
MGMT 2110	Principles of Management ¹	
MKTG 2110	Principles of Marketing ¹	
Total Credits		16

- Courses are identical to those offered at New Mexico State University Las Cruces (main) Campus.
- This course requires a grade of C- or better.

(16 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must earn a final grade of C- or better in all Technical Requirements courses and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University certificate requirements, which include: General Education requirements and elective credits to total at least 16 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course	Title	Credits
Semester 1		
ENGL 1110G	Composition I	4
MATH 1130G or MATH 1215 or MATH 1220G or OATS 106	Survey of Mathematics ¹ or Intermediate Algebra or College Algebra or Business Mathematics	3
PSYC 1110G or SOCI 1110G or BMGT 240	Introduction to Psychology ² or Introduction to Sociology or Human Relations	3
BUSA 1110	Intro to Business	3
	Credits	13
Semester 2		
Choose ONE from the	following:	3
BFIN 2110	Introduction to Finance	
MGMT 2110	Principles of Management	
MGMT 2110	Principles of Management	
	Credits	3
	Total Credits	16

- While OATS 106 meets program requirements, it does not meet the NM General Education Area II: Mathematics requirements.
- While BMGT 240 meets program requirements, it does not meet the NM General Education Area IV: Social/Behavioral Sciences requirements.

General Business Management -Certificate of Completion

Doña Ana Community College 2020-21 Catalog

(22 credits)

NOTE: Students must earn a final grade of C- or better in all Technical Requirements courses and Area of Interest courses and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University certificate requirements, which include: General Education requirements and elective credits to total at least 22 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
General Education Requirements		
Area I: Communication	ns - English Composition Level 1	
ENGL 1110G	Composition I ^{1,2}	4
Area II: Mathematics		
MATH 1130G	Survey of Mathematics ¹	3
Technical Requiremen	ts	
BUSA 1110	Intro to Business ¹	3
MGMT 2110	Principles of Management ¹	3
or BMGT 140	Principles of Supervision I	
Area of Interest Courses		
Select 9 credits from o	one or more of the following Areas of Interest.	9

Finance and Banking Services 3

Specific courses listed below.

General Management ³	
Retail Marketing and Sales ³	
Total Credits	22

- Courses are identical to those offered at New Mexico State University
 Las Cruces (main) Campus.
- This course requires a grade of C- or better.
- Work with your Faculty Advisor to select Area of Interest courses that meet your career goals.

Finance and Banking Services Area of Interest

Prefix	Title	Credits
BMGT 112	Banks and Your Money	3
BMGT 225	Introduction to Commercial Lending	3
BMGT 232	Personal Finance	3

General Management Area of Interest

Prefix	Title	Credits
BMGT 248	Introduction to Quality Management	3
BMGT 250	Diversity in the Workplace	3
BMGT 277	Entrepreneurship II - Small Business Management	3
BMGT 280	Introduction to Human Resources	3
BMGT 282	Introduction to International Business Management	3
BMGT 285	Introduction to Manufacturing Operations	3
BMGT 286	Introduction to Logistics	3
BMGT 287	Introduction to Export/Import	3

Retail Marketing and Sales Area of Interest

Prefix	Title	Credits
BMGT 126	Retail Management	3
BMGT 132	Principles of Selling	3
BMGT 136	Forecasting Business Activity	3
BMGT 138	Advertising	3
BMGT 205	Customer Service in Business	3

(22 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must earn a final grade of C- or better in all required Technical Requirements and Area of Interest courses and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University certificate requirements, which include: General Education requirements and elective credits to total at least 22 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course	Title	Credits
Semester 1		
Area I: Communicati	ions - English Composition Level 1	4
ENGL 1110G	Composition I	
Area II: Mathematics	S	3
MATH 1130G	Survey of Mathematics	
BUSA 1110	Intro to Business	3
	Credits	10
Semester 2		
MGMT 2110 or BMGT 140	Principles of Management or Principles of Supervision I	3
Choose three from t	he following:	9
Finance and Banking	g Services	
BMGT 112	Banks and Your Money	
BMGT 225	Introduction to Commercial Lending	
BMGT 232	Personal Finance	
General Managemer	nt	
BMGT 248	Introduction to Quality Management	
BMGT 250	Diversity in the Workplace	
BMGT 277	Entrepreneurship II - Small Business Management	
BMGT 280	Introduction to Human Resources	
BMGT 282	Introduction to International Business Management	
BMGT 285	Introduction to Manufacturing Operations	
BMGT 286	Introduction to Logistics	
BMGT 287	Introduction to Export/Import	
Retail Marketing and	d Sales	
BMGT 126	Retail Management	
BMGT 132	Principles of Selling	
BMGT 136	Forecasting Business Activity	
BMGT 138	Advertising	
BMGT 205	Customer Service in Business	
	Credits	12
	Total Credits	22

Business Management - Associate of Business Occupations

Doña Ana Community College 2020-21 Catalog

(64-65 credits)

NOTE: Students must earn a final grade of C- or better in all required Professional and Major courses and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and required program credits to total at least 64 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
Consuel Education		

General Education

Select one course from four of the following six content areas for a total of 12-14 credits $^{1,\,2}$

This degree requires a courses from Area I, II, IV and V, and students need to take ONE ADDITIONAL General Education course to meet NMSU requirements.

need to take ONE AL NMSU requirements	DDITIONAL General Education course to meet	
·	cations - English Composition Level 1	
ENGL 1110G	Composition I ³	4
Area II: Mathema		
MATH 1130G	Survey of Mathematics ³	3
Area IV: Social/Bo	ehavioral Sciences	
ECON 1110G	Survey of Economics ³	3
Area V: Humanitio		
PHIL 1115G	Introduction to Philosophy ³	3
General Education Ele		3-4
Core Requirements		
BMGT 240	Human Relations	3
Related/Professiona	al Requirements	
ACCT 2110	Principles of Accounting I ³	3
or OATS 120	Accounting Procedures I	
BFIN 2110	Introduction to Finance	3
BMGT 208	Business Ethics	3
BUSA 1110	Intro to Business ³	3
MGMT 2110	Principles of Management ³	3
or BMGT 140	Principles of Supervision I	
MKTG 2110	Principles of Marketing ³	3
Choose one from the		3
OATS 211	Information Processing I	
OATS 215	Spreadsheet Applications	
OATS 217	Powerpoint Presentation	
Major Requirements	•	
BLAW 316	Legal Environment of Business ³	3
or BLAW 2110	Business Law I	
BMGT 201	Work Readiness and Preparation	3
BMGT 221	Internship I	3
BMGT 290	Applied Business Capstone ⁴	3
BMGT Electives		12
Choose 12 credits fr	om the following:	
BMGT 112	Banks and Your Money	
BMGT 126	Retail Management	
BMGT 132	Principles of Selling	
BMGT 136	Forecasting Business Activity	
BMGT 138	Advertising	
BMGT 205	Customer Service in Business	
BMGT 225	Introduction to Commercial Lending	
BMGT 232	Personal Finance	
BMGT 248	Introduction to Quality Management	
BMGT 250	Diversity in the Workplace	
BMGT 277	Entrepreneurship II - Small Business Management	
BMGT 280	Introduction to Human Resources	
BMGT 282	Introduction to International Business Management	
BMGT 285	Introduction to Manufacturing Operations	
BMGT 286	Introduction to Logistics	

BMGT 287	Introduction to Export/Import	
Total Credits		64-65

- Each course selected must be from a different area and students cannot take multiple courses in the same area.
- See the <u>General Education</u> (p. 52) section of the catalog for a full list of courses
- Courses are identical to those offered at New Mexico State University Las Cruces (main) Campus.
- Students are required to take the Business Capstone Course (BMGT 290) at DACC. The course is offered during the Spring Semester ONLY.

(64-65 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in Mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your faculty advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must earn a final grade of C- or better in all required Professional and Major courses and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and required program credits to total at least 64 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course	Title	Credits
Semester 1		
ENGL 1110G	Composition I	4
MATH 1130G	Survey of Mathematics	3
PHIL 1115G	Introduction to Philosophy	3
BUSA 1110	Intro to Business	3
BMGT Elective - Choo	se one from the following:	3
BMGT 112	Banks and Your Money	
BMGT 126	Retail Management	
BMGT 132	Principles of Selling	
BMGT 136	Forecasting Business Activity	
BMGT 138	Advertising	
BMGT 205	Customer Service in Business	
BMGT 225	Introduction to Commercial Lending	
BMGT 232	Personal Finance	
BMGT 248	Introduction to Quality Management	
BMGT 250	Diversity in the Workplace	
BMGT 277	Entrepreneurship II - Small Business Management	
BMGT 280	Introduction to Human Resources	
BMGT 282	Introduction to International Business Management	
BMGT 285	Introduction to Manufacturing Operations	
BMGT 286	Introduction to Logistics	
BMGT 287	Introduction to Export/Import	
	Credits	16

Semester 2		
ACCT 2110	Principles of Accounting I	3
or OATS 120	or Accounting Procedures I	
BMGT 240	Human Relations	3
MGMT 2110	Principles of Management	3
or BMGT 140	or Principles of Supervision I	
BMGT Electives - Cho	oose two other courses from the list in Semester 1	6
	Credits	15
Semester 3		
ECON 1110G	Survey of Economics	3
BFIN 2110	Introduction to Finance	3
BMGT 208	Business Ethics	3
Choose one from the	following:	3
OATS 211	Information Processing I	
OATS 215	Spreadsheet Applications	
OATS 217	Powerpoint Presentation	
BMGT Electives - Cho	oose one other course from the list in Semester 1.	3
	Credits	15
Semester 4		
General Education El	ective	3-4
BLAW 316	Legal Environment of Business	3
BMGT 201	Work Readiness and Preparation	3
BMGT 221	Internship I	3
BMGT 290	Applied Business Capstone	3
MKTG 2110	Principles of Marketing	3
	Credits	18-19
	Total Credits	64-65

Business Management (Finance & Banking Services) - Associate of Business Occupations

Doña Ana Community College 2020-21 Catalog

(64-65 credits)

NOTE: Students must earn a final grade of C- or better in all required Professional and Major courses and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and required program credits to total at least 64 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits

General Education

Select one course from four of the following six content areas for a total of 12-14 credits $^{1,\,2}$

This degree requires courses from Areas I, II, IV and V, and students need to take ONE ADDITIONAL General Education course to meet NMSU requirements.

Area I: Communicat	ions - English Composition Level 1	
ENGL 1110G	Composition I ³	4

Area II: Mathema	tion	
MATH 1130G	Survey of Mathematics ³	3
	ehavioral Sciences	ა
		2
ECON 1110G	Survey of Economics ³	3
Area V: Humanitie		
PHIL 1115G	Introduction to Philosophy ³	3
General Education Ele	ective ²	3-4
Core Requirements		
BMGT 240	Human Relations	3
Related/Professiona	•	
ACCT 2110	Principles of Accounting I 3	3
or OATS 120	Accounting Procedures I	
BFIN 2110	Introduction to Finance	3
BMGT 208	Business Ethics	3
BUSA 1110	Intro to Business ³	3
MGMT 2110	Principles of Management ³	3
or BMGT 140	Principles of Supervision I	
MKTG 2110	Principles of Marketing ³	3
Choose one from the	e following:	3
OATS 211	Information Processing I	
OATS 215	Spreadsheet Applications	
OATS 217	Powerpoint Presentation	
Major Requirements		
BLAW 316	Legal Environment of Business ³	3
or BLAW 2110	Business Law I	
BMGT 201	Work Readiness and Preparation	3
BMGT 221	Internship I	3
BMGT 290	Applied Business Capstone ⁴	3
Concentration Cours		
BMGT 112	Banks and Your Money	3
BMGT 225	Introduction to Commercial Lending	3
BMGT 232	Personal Finance	3
	ncial Course (see advisor)	3
Total Credits		64-65
Total Credits		04-05

- Each course selected must be from a different area and students cannot take multiple courses in the same area.
- See the <u>General Education</u> (p. 52) section of the catalog for a full list of courses.
- Courses are identical to those offered at New Mexico State University Las Cruces (main) Campus.
- Students are required to take the Business Capstone Course (BMGT 290) at DACC. The course is offered during the Spring Semester ONLY.

(64-65 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in Mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your faculty advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must earn a final grade of C- or better in all required Professional and Major courses and achieve a cumulative grade-point

Credits

average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and required program credits to total at least 64 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course	Title	Credits
Semester 1		
ENGL 1110G	Composition I	4
MATH 1130G	Survey of Mathematics	3
PHIL 1115G	Introduction to Philosophy	3
BUSA 1110	Intro to Business	3
Concentration Course	- Choose one from the following:	3
BMGT 112	Banks and Your Money	
BMGT 225	Introduction to Commercial Lending	
BMGT 232	Personal Finance	
A Banking and Fina	ancial Course 3 credits (see advisor)	
	Credits	16
Semester 2		
ACCT 2110	Principles of Accounting I	3
or OATS 120	or Accounting Procedures I	
BMGT 240	Human Relations	3
MGMT 2110	Principles of Management	3
or BMGT 140	or Principles of Supervision I	
	s - Choose two other courses from the list in	6
Semester 1		
02	Credits	15
Semester 3 ECON 1110G	O	0
BFIN 2110	Survey of Economics Introduction to Finance	3
BFIN 2110 BMGT 208		3
	Business Ethics	3
Choose one from the f	-	3
OATS 211	Information Processing I	
OATS 215	Spreadsheet Applications	
OATS 217	Powerpoint Presentation	
Semester 1.	s - Choose one other course from the list in	3
	Credits	15
Semester 4		
General Education Ele	ctive	3-4
BLAW 316	Legal Environment of Business	3
BMGT 201	Work Readiness and Preparation	3
BMGT 221	Internship I	3
BMGT 290	Applied Business Capstone	3
MKTG 2110	Principles of Marketing	3
	Credits	18-19
	Total Credits	64-65

Business Management (General Management) - Associate of Business Occupations

Doña Ana Community College 2020-21 Catalog

Title

(64-65 credits)

Prefix

General Education

NOTE: Students must earn a final grade of C- or better in all required Professional and Major courses and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 64 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Select one course from 12-14 credits ^{1, 2}	n four of the following six content areas for a total of	
	courses from Areas I, II, IV and V, students do not itional General Education courses to meet the	
Area I: Communic	ations - English Composition Level 1	
ENGL 1110G	Composition I ³	4
Area II: Mathemat	ics	
MATH 1130G	Survey of Mathematics ³	3
Area IV: Social/Be	havioral Sciences	
ECON 1110G	Survey of Economics ³	3
Area V: Humanitie	s	
PHIL 1115G	Introduction to Philosophy ³	3
General Education Ele	ctive ²	3-4
Core Requirements		
BMGT 240	Human Relations	3
Related/Professional	l Requirements	
ACCT 2110	Principles of Accounting I 3	3
or OATS 120	Accounting Procedures I	
BFIN 2110	Introduction to Finance ³	3
BMGT 208	Business Ethics	3
BUSA 1110	Intro to Business ³	3
MGMT 2110	Principles of Management ³	3
or BMGT 140	Principles of Supervision I	
MKTG 2110	Principles of Marketing ³	3
Choose one from the	following:	3
OATS 215	Spreadsheet Applications	
OATS 211	Information Processing I	
OATS 217	Powerpoint Presentation	
Major Requirements		
BLAW 316	Legal Environment of Business ³	3
or BLAW 2110	Business Law I	
BMGT 201	Work Readiness and Preparation	3
BMGT 221	Internship I	3
BMGT 290	Applied Business Capstone ⁴	3
Concentration Course	ework	12
Choose 12 credits fro	om the following:	
BMGT 248	Introduction to Quality Management	
BMGT 250	Diversity in the Workplace	
BMGT 277	Entrepreneurship II - Small Business Management	

BMGT 280	Introduction to Human Resources	
BMGT 282	Introduction to International Business Management	
BMGT 285	Introduction to Manufacturing Operations	
BMGT 286	Introduction to Logistics	
BMGT 287	Introduction to Export/Import	
Total Credits		64-65

Each course selected must be from a different area and students cannot take multiple courses in the same area.

- See the <u>General Education</u> (p. 52) section of the catalog for a full list of courses.
- Courses are identical to those offered at New Mexico State University Las Cruces (main) Campus.
- Students are required to take the Business Capstone Course (BMGT 290) at DACC. The course is offered during the Spring Semester ONLY

(64-65 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must earn a final grade of C- or better in all required Professional and Major courses and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 64 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course	Title	Credits
Semester 1		
Area I: Communicat	ions - English Composition Level 1	4
ENGL 1110G	Composition I	
Area II: Mathematic	s	3
MATH 1130G	Survey of Mathematics	
Area V: Humanities		3
PHIL 1115G	Introduction to Philosophy	
BUSA 1110	Intro to Business	3
Concentration Cours	se - Choose one course from the following:	3
BMGT 248	Introduction to Quality Management	
BMGT 250	Diversity in the Workplace	
BMGT 277	Entrepreneurship II - Small Business Management	
BMGT 280	Introduction to Human Resources	
BMGT 282	Introduction to International Business Management	
BMGT 285	Introduction to Manufacturing Operations	
BMGT 286	Introduction to Logistics	
BMGT 287	Introduction to Export/Import	
	Credits	16

Semester 2	2
------------	---

Seillestei Z		
ACCT 2110 or OATS 120	Principles of Accounting I or Accounting Procedures I	3
BMGT 240	Human Relations	3
MGMT 2110	Principles of Management	3
or BMGT 140	or Principles of Supervision I	3
Concentration Course Semester 1.	s - Choose two other courses from the list in	6
	Credits	15
Semester 3		
Area IV: Social/Behavi	oral Sciences	3
ECON 1110G	Survey of Economics	
BFIN 2110	Introduction to Finance	3
OATS 208	Medical Office Procedures	3
Choose one from the	following:	3
OATS 211	Information Processing I	
OATS 215	Spreadsheet Applications	
OATS 217	Powerpoint Presentation	
Concentration Course Semester 1.	- Choose one other course from the list in	3
	Credits	15
Semester 4		
General Education Ele	ctive	3-4
BLAW 316	Legal Environment of Business	3
BMGT 201	Work Readiness and Preparation	3
BMGT 221	Internship I	3
BMGT 290	Applied Business Capstone	3
MKTG 2110	Principles of Marketing	3
	Credits	18-19
	Total Credits	64-65

Business Management (Retail Marketing & Sales) - Associate of Business Occupations

Doña Ana Community College 2020-21 Catalog

(64-65 credits)

NOTE: Students must earn a final grade of C- or better in all required Professional and Major courses and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 64 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix Title Credits

General Education

Select one course from four of the following six content areas for a total of 12-14 credits ^{1, 2}

This degree requires courses from Areas I, II, IV and V, students do not need to take any additional General Education courses to meet the requirement.

Area I: Communications - English Composition Level 1

ENGL 1110G	Composition I 3	4
Area II: Mathemat	ics	
MATH 1130G	Survey of Mathematics ³	3
Area IV: Social/Be	havioral Sciences	
ECON 1110G	Survey of Economics ³	3
Area V: Humanitie	s	
PHIL 1115G	Introduction to Philosophy ³	3
General Education Ele	ctive ²	3-4
Core Requirements		
BMGT 240	Human Relations	3
Related/Professiona	Requirements	
ACCT 2110	Principles of Accounting I 3	3
or OATS 120	Accounting Procedures I	
BFIN 2110	Introduction to Finance 3	3
BMGT 208	Business Ethics	3
BUSA 1110	Intro to Business ³	3
MGMT 2110	Principles of Management ³	3
or BMGT 140	Principles of Supervision I	
MKTG 2110	Principles of Marketing ³	3
Choose one from the	following:	3
OATS 211	Information Processing I	
OATS 215	Spreadsheet Applications	
OATS 217	Powerpoint Presentation	
Major Requirements		
BLAW 316	Legal Environment of Business ³	3
or BLAW 2110	Business Law I	
BMGT 201	Work Readiness and Preparation	3
BMGT 221	Internship I	3
BMGT 290	Applied Business Capstone ⁴	3
Concentration Cours	ework ⁴	
Select 12 credits from the following:		12
BMGT 126	Retail Management	
BMGT 132	Principles of Selling	
BMGT 136	Forecasting Business Activity	
BMGT 138	Advertising	
BMGT 205	Customer Service in Business	
Total Credits		64-65

Each course selected must be from a different area and students cannot take multiple courses in the same area.

See the <u>General Education</u> (p. 52) section of the catalog for a full list of courses.

Courses are identical to those offered at New Mexico State University Las Cruces (main) Campus.

Students are required to take the Business Capstone Course (BMGT 290) at DACC. The course is offered during the Spring Semester ONLY.

(64-65 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must earn a final grade of C- or better in all required Professional and Major courses and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 64 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course	Title	Credits
Semester 1		
Area I: Communication	ns - English Composition Level 1	4
ENGL 1110G	Composition I	
Area II: Mathematics		3
MATH 1130G	Survey of Mathematics	
Area V: Humanities		3
PHIL 1115G	Introduction to Philosophy	
BUSA 1110	Intro to Business	3
Concentration Course	- Choose one course from the following:	3
BMGT 126	Retail Management	
BMGT 132	Principles of Selling	
BMGT 136	Forecasting Business Activity	
BMGT 138	Advertising	
BMGT 205	Customer Service in Business	
	Credits	16
Semester 2		
ACCT 2110	Principles of Accounting I	3
or OATS 120	or Accounting Procedures I	
BMGT 240	Human Relations	3
MGMT 2110	Principles of Management	3
or BMGT 140	or Principles of Supervision I	
Concentration Course Semester 1.	s - Choose two other courses from the list in	6
	Credits	15
Semester 3		
Area IV: Social/Behavi	oral Sciences	3
ECON 1110G	Survey of Economics	
BFIN 2110	Introduction to Finance	3
BMGT 208	Business Ethics	3
Choose one from the f	following:	3
OATS 211	Information Processing I	
OATS 215	Spreadsheet Applications	
OATS 217	Powerpoint Presentation	
Concentration Course Semester 1.	- Choose one other course from the list in	3
	Credits	15
Semester 4		
General Education Ele	ctive	3-4
BLAW 316	Legal Environment of Business	3
BMGT 201	Work Readiness and Preparation	3
BMGT 221	Internship I	3
BMGT 290	Applied Business Capstone ⁴	3
MKTG 2110	Principles of Marketing	3
	Credits	18-19
	Total Credits	64-65
	rotal OfEuits	04-00

Computer and Information Technology

DEPARTMENT OVERVIEW

Computer and Information Technology (CIT) is the discipline of using integrated computer-based systems to solve real world problems. At DACC, students can specialize in cybersecurity, data analytics, database design/management, programming, network infrastructure, information security, server administration, systems analysis, and web development. Our students learn to work with applications and systems used by leading technology companies such as Amazon, Apple, Dell, Google, Hewlett Packard, Microsoft, Oracle, Palo Alto and Samsung. Graduates will be prepared to:

- · Accurately convey technical specifications;
- · Assist developing business continuity strategies;
- · Critically analyze real-world problems and concerns;
- · Support diverse network topologies and data systems;
- · Understand and apply fundamental security operations; and
- Deploy cyber defense measures to protect data and infrastructure.

INDUSTRY PARTNERSHIPS AND CERTIFICATIONS

DACC's Computer and Information Technology Department instructs students using real-world, career-based case studies while training with industry-standard software and hardware. Additionally, the department participates in numerous academic alliances and partnerships, including the Cisco Networking Academy, the CompTIA Academy Partner Program, Microsoft Azure DevOps, Oracle Academy, Palo Alto Academy, and VMware IT Academy. Students in DACC's Computer and Information Technology program have access to free software and are eligible to receive significant discounts when taking industry certification exams.

Students have opportunities to obtain industry certifications in the following fields of study.

- · Coding and Programming
- · Data Analytics and Management
- Information Systems
- · Network Administration
- · Network Security
- · Security Analysis
- · Server Administration

CAREER OPPORTUNITIES

Graduates of DACC's Computer and Information Technology Department are the problem-solvers that employers quickly hire and promote. Many students start their careers immediately after earning their two-year degree while others continue to a four-year degree. Companies who employ our students include:

- AbsenceSoft
- · Advanced Systems Development
- · Apple, Inc.
- · Army Research Laboratory (ARL)
- Belcan
- · City of Las Cruces
- · Deutsche Bank USA

- · Dona Ana County
- · Elephant Butte Irrigation District (EBID)
- · Indian Health Services
- · Gadsden Independent School District
- · Judicial Information Division of the New Mexico Courts
- · Kirkland Air Force Base
- · Las Cruces Public Schools
- · Los Alamos National Laboratory (LANL)
- · National Aeronautics and Space Administration (NASA)
- · Native Joint Venture Corporation (NVJC)
- · New Mexico Department of Agriculture
- · New Mexico Department of Health
- · New Mexico State University
- · New Mexico Taxation and Revenue Department
- Peraton
- Public Service Company of New Mexico
- · Sandia National Laboratories
- · Science Applications International Corporation (SAIC)
- · Tata Consultancy Services
- · United Services Automobile Association (USAA)
- · United States Army Training and Doctrine Command
- · United States Department of Defense
- · United States Department of Energy
- · United States Department of State
- · Virgin Galactic
- VOLT Global
- · Water Resources Research Institute

For more information, check out our webpage at http://dacc.nmsu.edu/cit, email us at cit@dacc.nmsu.edu or call us at 575-527-7663.

Associate of Applied Sciences Degrees

Computer Technology (IT Specialist) - Associate of Applied Science (p. 150)

Computer Technology (Networking) - Associate of Applied Science (p. 152)

 \underline{C} (p. 155)omputer Technology (Programming) - Associate of Applied Science (p. 155)

Cybersecurity - Associate of Applied Science (p. 157)

Certificates of Completion

Cisco Networking - Certificate of Completion (p. 159)

Computer Technology - Certificate of Completion (p. 160)

Cybersecurity - Certificate of Completion (p. 161)

Oracle Programming - Certificate of Completion (p. 162)

Programming - Certificate of Completion (p. 162)

System Administration - Certificate of Completion (p. 163)

BCIS 110. Introduction to Computerized Information Systems 3 Credits

Computerized information systems, their economic, and social implications. Introduction to microcomputer hardware, personal productivity software, and communications.

CTEC 105. Introduction to Information Technology 3 Credits (3)

Examination of information systems and their impact on commerce, education, and personal activities. Utilization of productivity tools for communication, data analysis, information management, and decision-making. Restricted to Community Colleges campuses only.

CSEC 110. Principles of Cybersecurity 3 Credits (3)

Course covers contemporary trends in cybersecurity including understanding characteristics of security vulnerabilities as they relate to hardware, software, data, procedures, and user actions. Restricted to Community Colleges campuses

CTEC 110. Software Applications for Technicians 1-3 Credits (1-3)

Introduction to software applications for communication, information management, and data analysis. Students will utilize presentation, word processing, spreadsheet, database, and utility software to simulate real-world activities experienced by help desk technicians. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

C S 111. Computer Science Principles 4 Credits (3+2P)

This course provides a broad and exciting introduction to the field of computer science and the impact that computation has today on every aspect of life. It focuses on exploring computing as a creative activity and investigates the key foundations of computing: abstraction, data, algorithms, and programming. It looks into how connectivity and the Internet have revolutionized computing and demonstrates the global impact that computing has achieved, and it reveals how a new student in computer science might become part of the computing future.

Prerequisite(s): MATH 1215 or higher.

CTEC 115. TOPICS IN IT

1-3 Credits (1-3)

Topics to be announced in the Schedule of Classes. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

C S 117. Introduction to Computer Animation 3 Credits (3)

Introductory course for learning to program with computer animation as well as learning basic concepts in computer science. Students create interactive animation projects such as computer games and learn to use software packages for creating animations in small virtual worlds using 3D models. Recommended for students considering a minor/major in computer science or simply interested in beginning computer animation or programming.

CTEC 120. IT Infrastructure Support I

1-3 Credits (1-3)

Introduction to most common types of PC configurations, installations, and failures. This course will explore troubleshooting skills for maintaining and repairing common hardware and software related problems. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

CTEC 122. IT Infrastructure Support II

1-3 Credits (1-3)

Continuation of CTEC 120. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): CTEC 120 or OECS 185.

CTEC 127. Introduction to Internet of Things

1-3 Credits (1-3)

Exploration of the importance of IoT in society, components of typical IoT devices and future trends. IoT design considerations, constraints, interfacing and key components of networking will also be covered. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

CTEC 130. Linux Workstation

1-3 Credits (1-3)

Installation, configuration, and maintenance of the Linux operating system. Covers file organization, user management, and system security. Addresses general procedures for working with and modifying the operating system. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

CTEC 135. Windows Workstation

1-3 Credits (1-3)

Installation, configuration, and maintenance of the Windows operating system. Covers file organization, user management, and system security. Addresses general procedures for working with and modifying the operating system. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

CTEC 140. Introduction to Database Design 1-3 Credits (1-3)

Introduction to basic relational database concepts including terminology, tables, queries, forms, and reports. The course teaches data modeling concepts, building Entity Relationship Diagrams (ERDs), mapping ERDs, and use of data management system applications. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

CTEC 145. Introduction to Database Management 1-3 Credits (1-3)

Use of SQL to analyze complex business scenarios as well as to design and create, and manage databases. Course includes exposure to Application Express (APEX) to provide practical, hands-on activities. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): CTEC 140 or OECS 220.

CTEC 150. Mobile Application Programming

1-3 Credits (1-3)

Introduction to elements of mobile application coding including concepts, design strategies, and tools needed to create, test, and deploy applications for mobile devices. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

C S 151. C++ Programming

3 Credits (2+2P)

Introduction to object-oriented programming in the C++ language. May be repeated up to 3 credits.

Prerequisite(s): MATH 1215 or higher.

C S 152. Java Programming

3 Credits (2+2P)

Programming in the Java language. May be repeated up to 3 credits.

Prerequisite(s): MATH 1215 or higher.

CTEC 152. JAVA Programming

1-3 Credits (1-3)

Introduction to concepts of programming in the Java language. Topics include data types, control structures, functions, arrays, files, and the mechanics of running, testing, and debugging code. This is a handson course that does not require students to have prior programming experience. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

C S 153. Python Programming I 3 Credits (3)

This course is an introduction to programming in the Python language, covering fundamental scripts, data types and variables, functions, and simple object creation and usage. The focus will be on preparing students to use Python in their own areas. No prior programming experience is required.

Prerequisite(s): MATH 1215 or higher.

C S 154. Python Programming II

3 Credits (3)

This course covers advanced Python programming, including classes, objects, and inheritance, embedded programming in domain applications, database interaction, and advanced data and text processing. The focus will be on preparing students to use Python in their own areas.

Prerequisite(s): CS 153 or CS 453.

CTEC 154. C++ Programming

1-3 Credits (1-3)

Introduction to concepts of programming in the C++ language. Topics include data types, control structures, functions, arrays, files, and the mechanics of running, testing, and debugging code. This is a handson course that does not require students to have prior programming experience. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

CTEC 156. Python Programming

1-3 Credits (1-3)

Introduction to concepts of programming in the Python language. Topics include data types, control structures, functions, arrays, files, and the mechanics of running, testing, and debugging code. This is a handson course that does not require students to have prior programming experience. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

C S 157. Topics in Software Programming and Applications 3 Credits (2+2P)

Current topics in computer programming and software applications. Topic announced in the Schedule of Classes. May be repeated if subtitle is different.

C S 158. R Programming I

3 Credits (3)

This course is an introduction to data processing in the R language, covering fundamental script configuration, data types and data collections, R control structures, and basic creation of graphs and data visualizations. This course will not focus on the statistical capabilities of R, though some basic statistical computations will be used.

Prerequisite(s): MATH 1220G.

CTEC 158. Visual Basic Programming

1-3 Credits (1-3)

Introduction to concepts of programming in the Visual Basic language. Topics include data types, control structures, functions, arrays, files, and the mechanics of running, testing, and debugging code. This is a handson course that does not require students to have prior programming experience. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

C S 171G. Introduction to Computer Science 4 Credits (3+2P)

Computers are now used widely in all area of modern life. This course provides understanding of the theoretical and practical foundations for how computers work, and provides practical application and programming experience in using computers to solve problems efficiently and effectively. The course covers broad aspects of the hardware, software, and mathematical basis of computers. Weekly labs stress using computers to investigate and report on data-intensive scientific problems. Practical experience in major software applications includes an introduction to programming, word processing, spreadsheets, databases, presentations, and Internet applications.

Prerequisite(s): MATH 1130G or MATH 1215 or higher.

C S 172. Computer Science I 4 Credits (3+2P)

Computational problem solving; problem analysis; implementation of algorithms using Java. Object-oriented concepts, arrays, searching, sorting, and recursion. May be repeated up to 4 credits. Crosslisted with: C S 460.

Prerequisite(s): (A C or better in either MATH 1250G or MATH 1430G) OR (A C or better in MATH 1220G and a 1 or better in the CS Placement Test).

CTEC 180. Introduction to Networking 3-4 Credits (3-4)

This course introduces the architecture, structure, functions, components, and models of the Internet and computer networks. Course includes the principles and structure of IP addressing and the fundamentals of Ethernet concepts, media, and operations to build simple LANs, perform basic configurations for routers and switches. May be repeated up to 8 credits. Restricted to Las Cruces campus only.

CTEC 185. Routing and Switching Essentials 3-4 Credits (3-4)

This course covers the architecture, components, and operations of routers and switches in a small network. Students learn how to configure routers and switches for basic functionality. Course demonstrates how to configure and troubleshoot routers and switches to resolve common issues with RIPv1, RIPng, single area and multi-area OSPF, virtual LANs, and inter-VLAN routing in both IPv4 and IPv6 networks. May be repeated up to 8 credits.

Prerequisite(s)/Corequisite(s): CTEC 180 or OECS 261. Restricted to Las Cruces campus only.

C S 209. Special Topics.

1-3 Credits

May be repeated for a maximum of 12 credits.

CTEC 220. Internship

1-3 Credits (1-3)

Work experience, directly related to a student's field of study, that provides an opportunity to explore career options while experiencing hands-on application, knowledge, and theory learned in the classroom. May be repeated up to 6 credits. Consent of Instructor required. Graded: S/U Grading (S/U, Audit). Restricted to Las Cruces campus only.

Prerequisite(s): (CTEC 120 or OECS 185) AND (CTEC 130 or OECS 204), AND (CTEC 180 or OECS 261).

CTEC 230. Introduction to Linux Server Administration 1-3 Credits (1-3)

This course addresses the implementation and support needs of IT professionals that are planning to deploy and support Linux Server(s). It provides in-depth, hands-on training for IT professionals responsible for the planning, implementation, management, and support of Linux Server operating system(s). May be repeated up to 6 credits.

Prerequisite(s)/Corequisite(s): CTEC 130 or OECS 204. Restricted to Community Colleges campuses only.

CTEC 235. Introduction to Windows Server Administration 3 Credits (3)

This course addresses the implementation and support needs of IT professionals that are planning to deploy and support Window Server(s). It provides in-depth, hands-on training for IT professionals responsible for the planning, implementation, management, and support of Windows Server operating system(s).

Prerequisite(s)/Corequisite(s): CTEC 135 or OECS 207. Restricted to Las Cruces campus only.

CTEC 240. Fundamentals of Database Management 3 Credits (3)

Exploration of database management using SQL and PL/SQL to extend and automate SQL in administering database systems. Students will create and work with projects which challenge them to enhance the SQL of a database solution for a business or organization. May be repeated up to 6 credits. Restricted to Las Cruces campus only.

Prerequisite(s): CTEC 145.

CTEC 245. Fundamentals of Cloud Based Data Systems 1-3 Credits (1-3)

Introduction to the techniques and tools required to develop database driven web applications. The course teaches students how to design, develop, and deploy efficient and responsive, database-driven web applications using Oracle Application Express. May be repeated up to 6 credits.

Prerequisite(s)/Corequisite(s): CTEC 240. Restricted to Community Colleges campuses only.

CTEC 255. Special Topics

1-3 Credits (1-3)

Topics to be announced in the Schedule of Classes. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

C S 271. Object Oriented Programming 4 Credits (3+2P)

Introduction to problem analysis and problem solving in the objectoriented paradigm. Practical introduction to implementing solutions in the C++ language. Pointers and dynamic memory allocation. Handson experience with useful development tools. May be repeated up to 4 credits.

Prerequisite(s): At least a C- in C S 172 or E E 112.

C S 272. Introduction to Data Structures

4 Credits (3+2P)

Design, implementation, use of fundamental abstract data types and their algorithms: lists, stacks, queues, deques, trees; imperative and declarative programming. Internal sorting; time and space efficiency of algorithms.

Prerequisite(s): At least a C- in C S 172, or placement.

C S 273. Machine Programming and Organization 4 Credits (3+2P)

Computer structure, instruction execution, addressing techniques; programming in machine and assembly languages. May be repeated up to 4 credits.

Prerequisite(s): At least a C- in C S 172 or E E 112.

CSEC 275. Introductory to Cryptography

3 Credits (3)

Introduction to the foundation of cryptography, principles behind cryptographic design, and cryptographic applications. Topics include encryption techniques, common cryptographic protocols and security functions.

Prerequisite(s)/Corequisite(s): MATH 1215 or above. Restricted to Las Cruces campus only.

C S 278. Discrete Mathematics for Computer Science 4 Credits (3+2P)

Discrete mathematics required for Computer Science, including the basics of logic, number theory, methods of proof, sequences, mathematical induction, set theory, counting, and functions.

Prerequisite(s): At least C- in C S 172.

CSEC 280. Introduction to Cyber Defense

3 Credits (3)

Introduction to the foundation of cryptography, principles behind cryptographic design, and cryptographic applications. Topics include encryption techniques, common cryptographic protocols and security functions

Prerequisite(s)/Corequisite(s): MATH 1215. Restricted to Las Cruces campus only.

CTEC 280. Scaling Networks

3-4 Credits (3-4)

This course covers the architecture, components, and operations of routers and switches in WLANs and complex networks. Students learn how to configure routers and switches for advanced functionality and to resolve common issues with OSPF, EIGRP, and STP in both IPv4 and IPv6 networks. May be repeated up to 8 credits.

Prerequisite(s)/Corequisite(s): CTEC 185 or OECS 262. Restricted to Las Cruces campus only.

CSEC 285. Introduction to Managing Information Security 3 Credits (3)

Managerial aspects of information security and assurance including access control models, information security governance, accountability metrics, legal responsibilities, and information security program assessment.

Prerequisite(s)/Corequisite(s): CTEC 290 or OECS 269. Restricted to Las Cruces campus only.

CTEC 285. Connecting Networks

3-4 Credits (3-4)

This course covers WAN technologies and network services required by converged applications in a complex network. Students learn about selection criteria of network devices, VLANs and WAN technologies to meet network requirements to resolve common issues with data link protocols. May be repeated up to 8 credits.

Prerequisite(s)/Corequisite(s): CTEC 280 or OECS 263. Restricted to Las Cruces campus only.

CTEC 290. Network Security

3-4 Credits (3-4)

Fundamentals of design and implementation of network security solutions that will reduce the risk of system vulnerability. Topics include: threats, attacks, vulnerabilities, tools, architecture, design, access management, risk management, and cryptography. May be repeated up to 8 credits.

Prerequisite(s)/Corequisite(s): (CTEC 120 or OECS 185), AND (CTEC 180 or OECS 261). Restricted to Las Cruces campus only.

CTEC 299. Independent Study

1-4 Credits (1-4)

Specific subject to be determined based upon student need. May be repeated up to 8 credits. Restricted to Community Colleges campuses only.

OECS 101. Computer Basics

1 Credit (1)

Hands-on instruction to introduce computer use and commonly used software. Graded S/U.

OECS 105. Introduction to Information Technology 3 Credits (3)

Examination of information systems and their impact on commerce, education, and personal activities. Utilization of productivity tools for communication, data analysis, information management and decision-making. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

OECS 110. Introduction to Power Point

1-3 Credits (1-3)

An introduction to Power Point software to develop business presentations. Includes concepts of basic presentation methods and graphic design principles. Students will create and deliver presentations using text, charts, digitized images, and sound. Restricted to Community Colleges campuses only.

OECS 125. Operating Systems

1-3 Credits

Installation, configuration and optimization of current operating systems. Restricted to: Community Colleges only.

OECS 128. Operating Systems Linux/Unix 3 Credits (3)

Installation, configuration, and use of Linux/Unix operating system software and utilities including hardware management, file management, use of command line, and scripting. Restricted to: Community Colleges only.

OECS 140. Introduction to Game Production Industry 1-3 Credits (1-3)

Students explore the business behind game production, understanding how game companies are organized and funded, positions within the game industry, and what skills game producers need. Restricted to Community Colleges campuses only.

OECS 141. Introduction to Interactive Game Programming 1-3 Credits (1-3)

This introductory programming class reviews the basics of programming, including the object-oriented approach. Students will de-construct existing games, develop their own code, and gain an appreciation for coding strategies. May be repeated for a maximum of 6 credits. Restricted to Community Colleges campuses only.

OECS 145. Mobile Application Development

1-3 Credits (1-3)

Introduction to elements of mobile application coding including concepts, design strategies, tools needed to create, test and deploy applications for mobile devices. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

OECS 155. Special Topics - Introductory Computer Technology 0.5-4 Credits (.5-4)

Topics to be announced in the Schedule of Classes. May be repeated up to 8 credits.

OECS 185. PC Maintenance and Repair I

1-3 Credits

Introduction to most common types of PC configurations, installations, and failures. This course will explore troubleshooting skills for maintaining and repairing common hardware and software related problems. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

OECS 192. C++ Programming I

3 Credits (3)

Development of skills in programming using the C++ programming language. Restricted to: Community Colleges only.

OECS 195. Java Programming I

1-3 Credits

Developing of skills in programming using the Java programming language. Restricted to: Community Colleges only.

OECS 200. Accounting on Microcomputers

3 Credits (3)

Fundamental accounting principles using popular microcomputer soft ware to include G/L, A/R, A/P, purchase order, billing, inventory, and forecasting modules.

Prerequisite: ACCT 2110 or OATS 121.

OECS 204. Linux Operating System

1-3 Credits

Install and configure the Linux operating system on X86 systems. Covers issues involved in maintaining operating system, networking, creating and managing users, and installing and updating software. General procedures for working with operating system includes maintaining disk space, preserving system security, and other related topics. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

OECS 205. Advanced Operating Systems: Administration 3 Credits (3)

Examines operating systems designed for PC, minicomputers and mainframes. Covers maintaining operating systems, creating and managing users, and installing and updating software. General procedures for working with operating systems will include maintaining disk space, preserving system security, providing mail services, among other topics. May be repeated for a maximum of 6 credits.

Prerequisite: OECS 128.

OECS 207. Windows

0.5-3 Credits

Covers local installation, configuration of core local services, managing users, and the general local management and maintenance of Windows workstations. May be repeated up to 6 credits.

Prerequisite(s)/Corequisite(s): OECS 185. Restricted to Community Colleges campuses only.

OECS 208. Internet Applications

1-3 Credits

Survey of the Internet to include e-mail, file transfer, current search techniques, the World Wide Web and basic Web page development. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

OECS 209. Computer Graphic Arts

1-3 Credits

Basic graphics composition using computer programs to include editing and manipulating graphic images, clip-art, and printing of pictures. May be repeated for a maximum of 6 credits under different subtitles listed in the Schedule of Classes.

Prerequisite: OECS 105, BCIS 1110, or OECS 101.

OECS 211. Word Processing Applications

1-3 Credits

Basic word processing to include composing, editing, formatting, and printing of documents. May be repeated under different subtitles listed in the Schedule of Classes for a maximum of 6 credits.

Prerequisites: BCIS 1110 or OECS 105.

OECS 215. Spreadsheet Applications

1-3 Credits

Use of spreadsheets to include graphics and business applications. May be repeated for a maximum of 6 credits.

Prerequisites: BCIS 1110 or OECS 105.

OECS 216. Programming for the Web

3 Credits (3)

Designing web-based applications using appropriate programming language(s) such as, but not limited to HTML, PHP, MySQL, SQL, Java, Perl, C or C++. May be repeated up to 6 credits. Restricted to: Community Colleges only.

Prerequisite(s): One semester of any programming course.

OECS 220. Database Application and Design

1-3 Credits

Creating, sorting, and searching of single and multifile databases to include report generation and programming database commands. May be repeated for a maximum of 6 credits under different subtitles listed in the Schedule of Classes. Restricted to: Community Colleges only.

Prerequisite(s): BCIS 1110 OR ET 120 OR ET 122 OR OECS 105.

OECS 221. Internship I

1-3 Credits

Work experience that directly relates to a student's major field of study that provides the student an opportunity to explore career paths and apply knowledge and theory learned in the classroom. Internships may be paid or unpaid. Students are supervised/evaluated by both the employer and the instructor. May be repeated up to 3 credits. Consent of Instructor required. Restricted to: OECS majors. Graded: S/U Grading (S/U, Audit). Restricted to Community Colleges campuses only.

Prerequisite(s): Consent of instructor.

OECS 222. Internship II

1-3 Credits

Continuation of OECS 221. Each credit requires specified number of hours of on-the-job work experience. May be repeated up to 3 credits. Consent of Instructor required. Restricted to: OECS majors. Graded: S/U Grading (S/U, Audit). Restricted to Community Colleges campuses only.

Prerequisite(s): OECS 221 and consent of instructor.

OECS 227. Computer Applications for Technicians 3 Credits (3)

Computer applications for service technicians in various disciplines. Hardware and software applications explored. Includes operating systems, high level programming, and networking hardware and software.

OECS 230. Data Communications and Networks I

1-3 Credits

Definition of data communication; survey of hardware applications and teleprocessor software; examination and design of networks. May be repeated for a maximum of 6 credits.

Prerequisite: OECS 185.

OECS 231. Data Communications and Networks II

1-3 Credits

Installation and application of popular microcomputer network software. May be repeated for a maximum of 6 credits.

Prerequisite: OECS 230.

OECS 234. Linux Server

3-4 Credits (3-4)

This course addresses the implementation and support needs of IT professionals that are planning to deploy and support Linux Server(s). It provides in-depth, hands-on training for planning, implementation, management and support of Linux networking services. May be repeated up to 8 credits.

Prerequisite(s)/Corequisite(s): OECS 204. Restricted to: OECS majors. Restricted to Community Colleges campuses only.

OECS 235. Structured Query Language (SQL)

1-3 Credits

Installation, configuration, administration, and troubleshooting of SQL client/server database management system. May be repeated up to 3 credits.

Prerequisite(s)/Corequisite(s): OECS 220. Restricted to Community Colleges campuses only.

OECS 237. Windows Server

3-4 Credits (3-4)

This course addresses the implementation and support needs of IT professionals that are planning to deploy and support Microsoft Windows Server Active Directory Domain Services in medium to large businesses. It provides in-depth, hands-on training for Information Technology (IT) professionals responsible for the planning, implementation, management, and support of Windows Active Directory services. May be repeated up to 4 credits.

Prerequisite(s)/Corequisite(s): OECS 207. Restricted to Community Colleges campuses only.

OECS 245. Game Programming I

3 Credits (3)

Development of programming skills for games and animation using current programming languages and tools. May be repeated for a maximum of 6 credits.

Prerequisite: consent of instructor.

OECS 246. Game Programming II

3 Credits (3)

Continuation of OECS 245. May be repeated for a maximum of 6 credits.

Prerequisite: OECS 245.

OECS 250. Systems Analysis and Design I

3 Credits (3)

Analysis, configuration, design and testing of organizations' work flow as it relates to hardware, software, data, procedures and personnel. Systems Life Cycle approach matching end users' needs to feasible financial, technical and operational solutions. Restricted to Community Colleges campuses only.

Prerequisite(s): OECS 220.

OECS 255. Special Topics 1-4 Credits

Topics to be announced in the Schedule of Classes.

OECS 260. Hypertext Markup Language (HTML)

1-3 Credits

Coverage of HTML as used for web-page development for Internet and Intranet. Text manipulation, graphics, hypertext links, lists, and tables. May be repeated for a maximum or 3 credits.

Prerequisite: BCIS 1110 or OECS 105.

OECS 261. Introduction to Networks

3-4 Credits (3-4)

Introduction to networking principles including the practical and conceptual skills for understanding basic networking, planning and designing networks, implementing IP addressing schemes, examining the OSI and TCP/IP layers, and performing basic configurations for routers and switches. Aligns to the first course of the Cisco Networking Academy CCNA curriculum. Restricted to Community Colleges campuses only.

OECS 262. Essentials of Routing and Switching 3-4 Credits (3-4)

Examination of the architecture, components, and operations of routers and switches in a small network. Student will learn how to configure, verify and troubleshoot: routers and switches, static routing, default routing, VLANs, and ACLs. Aligns to the second course of the Cisco Networking Academy CCNA curriculum. May be repeated up to 4 credits. Prerequisite(s)/Corequisite(s): OECS 261. Restricted to Community Colleges campuses only.

OECS 263. Network Fundamentals

3-4 Credits (3-4)

Fundamentals of networking architecture, components, and operations including practical and conceptual skills using routers and switches. Student will learn how to configure, verify and troubleshoot static routing, default routing, VLANs, and ACLs. This course aligns to the third course of the Cisco Networking Academy CCNA curriculum. May be repeated up to 4 credits.

Prerequisite(s)/Corequisite(s): OECS 262. Restricted to Community Colleges campuses only.

OECS 264. Network Routing Protocols

3-4 Credits (3-4)

Fundamentals of routing protocols for troubleshooting advanced network operations. Covers common networking issues such as RIP, OSPF, and EIGRP for IPv4 and IPv6 networks. This course aligns to the fourth course of the Cisco Networking Academy CCNA curriculum. May be repeated up to 4 credits.

Prerequisite(s)/Corequisite(s): OECS 263. Restricted to Community Colleges campuses only.

OECS 269. Network Security

3-4 Credits (3-4)

Fundamentals of design and implementation of network security solutions that will reduce the risk of system vulnerability. May be repeated up to 8 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): OECS 204 or OECS 207 or OECS 261 or consent of

instructor.

OECS 275. PC Maintenance and Repair II

1-3 Credits

Continuation of OECS 185. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): OECS 185.

OECS 280. Desktop Publishing I

3 Credits (3)

Design and production of publication materials to fill the needs of business communities, using a microcomputer. May be repeated for a maximum of 6 credits. Same as OATS 280.

Prerequisites: either BCIS 1110, OECS 105.

OECS 290. Computer Technology Capstone

1-3 Credits

Refines skills learned in the OECS program. Culminates in a review and practice of advanced software applications. May be repeated up to 3 credits. Restricted to: OECS & OECT majors. Restricted to Community Colleges campuses only.

Prerequisite(s): (OECS 125, OECS 128, OECS 207, OR OECS 203) AND (OECS 185 OR E T 283).

OECS 299. Independent Study

1-3 Credits

Specific subjects to be determined based on need. Restricted to: Community Colleges only.

Name: Jon Juarez, Department Chair

Office Location: DAEM 119D

Phone: (575) 527-7663

Email: jjuarez@dacc.nmsu.edu

Website: https://dacc.nmsu.edu/cit/

Computer Technology (IT Specialist) - Associate of Applied Science

Doña Ana Community College 2020-21 Catalog

(60-63 credits)

Degree requires a minimum of 60 credits and a cumulative GPA of 2.0. If a student has no basic typing skills, OATS 101 Keyboarding Basics is a prerequisite for all CTEC, CSEC, and OECS courses.

<u>The New Mexico General Education Requirements</u> (p. 52) can be found in the section titled, "Transfer Among New Mexico Institutions of Higher Education'.

NOTE: Students must earn a final grade of C- or better in all Major Requirements courses and achieve a cumulative grade-point average

60-63

of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 60 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
General Education		
Select one course from 12-14 credits ^{1, 2}	four of the following six content areas for a total of	12-14
This degree requires of	ourses from Areas I, III and IV; students must	
select one course from Education requiremen	n the remaining areas to complete General ts.	
Area I: Communica	ations - English Compostion Level 1	
ENGL 1110G	Composition I (grade of C- or better required) ³	
Area II: Mathemati	cs	
Area III: Laboratory	Sciences	
Choose one from t		
C S 171G	Introduction to Computer Science ³	
ASTR 1120G	The Planets ³	
PHYS 1115G	Survey of Physics with Lab ³	
PHYS 1230G & PHYS 1230L	Algebra-Based Physics I and Algebra-Based Physics I Lab ³	
PHYS 1240G & PHYS 1240L	Algebra-Based Physics II and Algebra-Based Physics II Lab ³	
Area IV: Social/Beh	navioral Sciences	
Choose one from t	he following:	
CJUS 1110G	Introduction to Criminal Justice ³	
ECON 1110G	Survey of Economics ³	
ECON 2110G	Macroeconomic Principles ³	
ECON 2120G	Microeconomics Principles 3	
PSYC 1110G	Introduction to Psychology 3	
SOCI 1110G	Introduction to Sociology 3	
GNDR 2110G	Introduction to Women, Gender, and Sexuality Studies ³	
GNDR 2120G	Representing Women Across Cultures ³	
General Education Elec Level 2	tive - Area I: Communications - English Composition	
ENGL 2210G	Professional & Technical Communication ³	3
or ENGL 2221G	Writing in the Humanities and Social Science	
Core Requirements		
Choose one from the t	following:	3-4
MATH 1215	Intermediate Algebra ³	
MATH 1350G	Introduction to Statistics ³	
OATS 106	Business Mathematics	
MATH 1220G	College Algebra ³	
MATH 1250G	Trigonometry & Pre-Calculus ³	
MATH 1430G	Applications of Calculus I ³	
MATH 1511G	Calculus and Analytic Geometry I ³	
MATH 1521G	Calculus and Analytic Geometry II ³	
OR Appropriate Tec	chnology-Related Math Course	
Major Requirements		
Technical Requirement	s	
CTEC 120	IT Infrastructure Support I	3
or OECS 185	PC Maintenance and Repair I	
CTEC 130	Linux Workstation	3

or OECS 204	Linux Operating System	
CTEC 135	Windows Workstation	3
or OECS 207	Windows	
CTEC 140	Introduction to Database Design	3
or OECS 220	Database Application and Design	
CTEC 180	Introduction to Networking	3-4
or OECS 261	Introduction to Networks	
or E T 153	Introduction to Computer Networks	
or E T 155	Network Operating Systems I	
or E T 273	Fundamentals of Networking Communications I	
CTEC 220	Internship	3
or OECS 221	Internship I	
CTEC 290	Network Security	3
or OECS 269	Network Security	
Choose one from the f	ollowing:	3-4
CTEC 145	Introduction to Database Management	
or OECS 235	Structured Query Language (SQL)	
CTEC 150	Mobile Application Programming	
or OECS 145	Mobile Application Development	
CTEC 152	JAVA Programming	
or OECS 195	Java Programming I	
or C S 152	Java Programming	
CTEC 154	C++ Programming	
or OECS 192	C++ Programming I	
or C S 151	C++ Programming	
CTEC 156	Python Programming	
or OECS 216	Programming for the Web	
CTEC 158	Visual Basic Programming	
CTEC 240	Fundamentals of Database Management	
CTEC 245	Fundamentals of Cloud Based Data Systems	
OR Any Appropriate	C S Course (EXCLUDING BCIS 1110 and	
courses used to ful	fill Technical/Major Requirements.)	
Concentration Coursew	ork	
	approved computer-related electives (except	16
	e with the following prefix: BCIS, C S, CSEC, DMA,OECS. EXCLUDING courses used to fulfill	
Technical/Major Requi	•	

- Each course selected must be from a different area and students cannot take multiple courses in the same area.
- See the <u>General Education</u> (p. 52) section of the catalog for a full list of courses.
- Courses are identical to those offered at New Mexico State University Las Cruces (main) Campus.
- Some courses not currently taught at DACC. Please refer to Class Schedule for a listing of courses taught at DACC.

(60-64 credits)

Total Credits

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

Course

Degree requires a minimum of 63 credits and a cumulative GPA of 2.0. If a student has no basic typing skills, OATS 101 Keyboarding Basics is a prerequisite for all CTEC, CSEC, and OECS courses.

<u>The New Mexico General Education Requirements</u> (p. 52) can be found in the section titled, "Transfer Among New Mexico Institutions of Higher Education'.

NOTE: Students must earn a final grade of C- or better in all Major Requirements courses and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 60 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Credits

Title

Course	Title	Credits
Semester 1		
Area I: Communication	s - English Composition Level 1	4
ENGL 1110G	Composition I	
Area IV: Social/Behavio	oral Sciences - Choose one from the following:	3
CJUS 1110G	Introduction to Criminal Justice	
ECON 1110G	Survey of Economics	
ECON 2110G	Macroeconomic Principles	
ECON 2120G	Microeconomics Principles	
GNDR 2110G	Introduction to Women, Gender, and Sexuality Studies	
GNDR 2120G	Representing Women Across Cultures	
PSYC 1110G	Introduction to Psychology	
SOCI 1110G	Introduction to Sociology	
Choose one from the fo	ollowing:	3-4
MATH 1215	Intermediate Algebra	
MATH 1220G	College Algebra	
MATH 1250G	Trigonometry & Pre-Calculus	
MATH 1350G	Introduction to Statistics	
MATH 1430G	Applications of Calculus I	
MATH 1511G	Calculus and Analytic Geometry I	
MATH 1521G	Calculus and Analytic Geometry II	
OATS 106	Business Mathematics	
OR other appropriat	te technology-related Math course).	
CTEC 120 or OECS 185	IT Infrastructure Support I or PC Maintenance and Repair I	3
CTEC 135	Windows Workstation	3
or OECS 207	or Windows	
	Credits	16-17
Semester 2		
	oose one course from different NM General r VI in the NMSU/DACC Catalog.	3-4
Area III: Laboratory Sci	iences - Choose one from the following:	4
ASTR 1120G	The Planets	
C S 171G	Introduction to Computer Science	
PHYS 1115G	Survey of Physics with Lab	
PHYS 1230G & PHYS 1230L	Algebra-Based Physics I and Algebra-Based Physics I Lab	
PHYS 1240G & PHYS 1240L	Algebra-Based Physics II and Algebra-Based Physics II Lab	

	Total Credits	60-64
	Credits	13-14
Approved Computer-R be found in Semester:	elated Elective - A list of approved electives can 2.	3
CTEC 290 or OECS 269	Network Security or Network Security	3-4
or OECS 221	Internship or Internship I	3
computer-related elect following prefix: BCIS, EXCLUDING courses u	s (choose one) - Select 4 credits from approved tives (except OATS 101). Any course with the C S, CSEC, CTEC, DRFT, E E, E T, FDMA, OECS. sed to fulfull Technical/Major Requirements.	4
Semester 4		13-10
ENGL 2210G or ENGL 2221G	Professional & Technical Communication or Writing in the Humanities and Social Science Credits	15-16
Composition Level 2	ctive - Area I: Communications - English	3
OECS 261	Introduction to Networks	
ET 273	Fundamentals of Networking Communications	
E T 155	Network Operating Systems I	
ET 153	Introduction to Computer Networks	
CTEC 180	Introduction to Networking	
Concentration Courses computer-related elect following prefix: BCIS,	s (choose three) - Select 9 credits from approved tives (except OATS 101). Any course with the C S, CSEC, CTEC, DRFT, E E, E T, FDMA, OECS. sed to fulfull Technical/Major Requirements. following:	9 3-4
Semester 3	Credits	16-17
	e C S Course (EXCLUDING C S 110/BCIS 1110 o fulfill Technical/Major Requirements.)	
CTEC 245	Fundamentals of Cloud Based Data Systems	
CTEC 240	Fundamentals of Database Management	
CTEC 156 or OECS 216 CTEC 158	Python Programming or Programming for the Web Visual Basic Programming	
or OECS 192 or C S 151	C++ Programming or C++ Programming I or C++ Programming	
CTEC 152 or OECS 195 or C S 152	JAVA Programming or Java Programming I or Java Programming	
CTEC 150 or OECS 145	Mobile Application Programming or Mobile Application Development	
CTEC 145 or OECS 235	Introduction to Database Management or Structured Query Language (SQL)	
	elated Elective - Choose one from the following:	3
or OECS 220	Introduction to Database Design or Database Application and Design	3

Computer Technology (Networking) - Associate of Applied Science

Doña Ana Community College 2020-21 Catalog

(60-63 credits)

Degree requires a minimum of 60 credits and a cumulative GPA of 2.0. If a student has no basic typing skills, OATS 101 Keyboarding Basics is a prerequisite for all CTEC, CSEC, and OECS courses.

NOTE: Students must earn a final grade of C- or better in all Major Requirements courses and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

<u>The New Mexico General Education Requirements</u> (p. 52) can be found in the section titled, "Transfer Among New Mexico Institutions of Higher Education'.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 60 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
General Education		
Select one course from 12-14 credits ^{1, 2}	four of the following six content areas for a total of	12-14
	ourses from Areas I, III and IV; students must n the remaining areas to complete General	
Area I: Communica		
ENGL 1110G	Composition I (grade of C- or better required) ³	
Area II: Mathemati		
Area III: Laboratory	v Sciences	
Select one course		
C S 171G	Introduction to Computer Science ³	
ASTR 1120G	The Planets ³	
PHYS 1115G	Survey of Physics with Lab ³	
PHYS 1230G & PHYS 1230L	Algebra-Based Physics I and Algebra-Based Physics I Lab ³	
PHYS 1240G & PHYS 1240L	Algebra-Based Physics II and Algebra-Based Physics II Lab ³	
Area IV: Social/Beh	navioral Sciences	
Select one course	from the following:	
CJUS 1110G	Introduction to Criminal Justice 3	
ECON 1110G	Survey of Economics ³	
ECON 2110G	Macroeconomic Principles ³	
ECON 2120G	Microeconomics Principles 3	
PSYC 1110G	Introduction to Psychology ³	
SOCI 1110G	Introduction to Sociology ³	
GNDR 2110G	Introduction to Women, Gender, and Sexuality Studies ³	
GNDR 2120G	Representing Women Across Cultures ³	
General Education Elec	••••	
ENGL 2210G	Professional & Technical Communication ³	3
or ENGL 2221G	Writing in the Humanities and Social Science	
Core Requirements		
Select one course from		3-4
MATH 1215	Intermediate Algebra ³	
MATH 1350G	Introduction to Statistics ³	

OATS 106	Business Mathematics	
MATH 1220G	College Algebra ³	
MATH 1250G	Trigonometry & Pre-Calculus ³	
MATH 1430G	Applications of Calculus I ³	
MATH 1511G	Calculus and Analytic Geometry I ³	
MATH 1521G	Calculus and Analytic Geometry II ³	
OR Appropriate Te	chnology-Related Math Course	
Major Requirements		
Technical Requirement	's	
CTEC 120	IT Infrastructure Support I	3
or OECS 185	PC Maintenance and Repair I	
CTEC 130	Linux Workstation	3
or OECS 204	Linux Operating System	
CTEC 135	Windows Workstation	3
or OECS 207	Windows	
CTEC 140	Introduction to Database Design	3
or OECS 220	Database Application and Design	
CTEC 180	Introduction to Networking	3-4
or OECS 261	Introduction to Networks	٠.
or E T 153	Introduction to Computer Networks	
or E T 155	Network Operating Systems I	
or E T 273	Fundamentals of Networking Communications I	
CTEC 220	Internship	3
or OECS 221	'	3
	Internship I	2
CTEC 290	Network Security	3
or OECS 269	Network Security	2.4
Select one course from	· ·	3-4
CTEC 145	Introduction to Database Management	
or OECS 235	Structured Query Language (SQL)	
CTEC 150	Mobile Application Programming	
or OECS 145	Mobile Application Development	
CTEC 152	JAVA Programming	
or OECS 195	Java Programming I	
or C S 152	Java Programming	
CTEC 154	C++ Programming	
or OECS 192	C++ Programming I	
or C S 151	C++ Programming	
CTEC 156	Python Programming	
or OECS 216	Programming for the Web	
CTEC 158	Visual Basic Programming	
CTEC 240	Fundamentals of Database Management	
CTEC 245	Fundamentals of Cloud Based Data Systems	
OR Any Appropriat	e C S Course (EXCLUDING C S 110/BCIS 1110	
and courses used	to fulfill Technical/Major Requirements.)	
Concentration Coursev	vork	
Select 16 credits from	the following (EXCLUDING courses used to fulfill	16
Technical/Major Requ	uirements.):	
CTEC 145	Introduction to Database Management	
or OECS 235	Structured Query Language (SQL)	
CTEC 156	Python Programming	
or OECS 216	Programming for the Web	
CTEC 185	Routing and Switching Essentials	
or OECS 262	Essentials of Routing and Switching	
CTEC 230	Introduction to Linux Server Administration	
or OECS 205	Advanced Operating Systems: Administration	
or OECS 234	Linux Server	
CTEC 235	Introduction to Windows Server Administration	
01L0 233	introduction to windows server Administration	

or OECS 237	Windows Server	
CTEC 280	Scaling Networks	
or OECS 263	Network Fundamentals	
CTEC 285	Connecting Networks	
or OECS 264	Network Routing Protocols	
E T 253	Networking Operating Systems II ⁴	
ET 277	Computer Networking I for IET ⁴	
OECS 205	Advanced Operating Systems: Administration	
OECS 230	Data Communications and Networks I	
OECS 231	Data Communications and Networks II	
Total Credits		60-63

- Each course selected must be from a different area and students cannot take multiple courses in the same area.
- See the <u>General Education</u> (p. 52) section of the catalog for a full list of courses.
- Courses are identical to those offered at New Mexico State University Las Cruces (main) Campus.
- Some courses not currently taught at DACC. Please refer to Class Schedule for a listing of courses taught at DACC.

(60-64 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

Degree requires a minimum of 60 credits and a cumulative GPA of 2.0. If a student has no basic typing skills, OATS 101 Keyboarding Basics is a prerequisite for all CTEC, CSEC, and OECS courses.

NOTE: Students must earn a final grade of C- or better in all Major Requirements courses and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 63 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course	Title	Credits
Semester 1		
Area I: Communicatio	ns - English Compostion Level 1	4
ENGL 1110G	Composition I	
Area IV: Social/Behav	ioral Sciences - Choose one from the following:	3
CJUS 1110G	Introduction to Criminal Justice	
ECON 1110G	Survey of Economics	
ECON 2110G	Macroeconomic Principles	
ECON 2120G	Microeconomics Principles	
GNDR 2110G	Introduction to Women, Gender, and Sexuality Studies	
GNDR 2120G	Representing Women Across Cultures	
PSYC 1110G	Introduction to Psychology	
SOCI 1110G	Introduction to Sociology	
Choose one from the	following:	3-4

MATH 1215	Intermediate Algebra	
MATH 1220G	College Algebra	
MATH 1250G	Trigonometry & Pre-Calculus	
MATH 1350G	Introduction to Statistics	
MATH 1430G	Applications of Calculus I	
MATH 1511G	Calculus and Analytic Geometry I	
MATH 1521G	Calculus and Analytic Geometry II	
OATS 106	Business Mathematics	
	hnology-Related Math Course	
or OECS 185	IT Infrastructure Support I or PC Maintenance and Repair I	3
CTEC 135 or OECS 207	Windows Workstation or Windows	3
	Credits	16-17
Semester 2		
	oose one course from different NM General or VI in the NMSU/DACC Catalog.	3-4
Area III: Laboratory Sci	iences - Choose one from the following:	4
ASTR 1120G	The Planets	
C S 171G	Introduction to Computer Science	
PHYS 1115G	Survey of Physics with Lab	
PHYS 1230G or PHYS 1230L	Algebra-Based Physics I or Algebra-Based Physics I Lab	
PHYS 1240G or PHYS 1240L	Algebra-Based Physics II or Algebra-Based Physics II Lab	
CTEC 130	Linux Workstation	3
or OECS 204	or Linux Operating System	
CTEC 140 or OECS 220	Introduction to Database Design or Database Application and Design	3
Approved Computer-Re	elated Elective - Choose one from the following:	3
CTEC 145 or OECS 235	Introduction to Database Management or Structured Query Language (SQL)	
CTEC 150 or OECS 145	Mobile Application Programming or Mobile Application Development	
CTEC 152 or OECS 195	JAVA Programming or Java Programming I	
or C S 152	or Java Programming	
CTEC 154 or OECS 192 or C S 151	C++ Programming or C++ Programming I or C++ Programming	
CTEC 156 or OECS 216	Python Programming or Programming for the Web	
CTEC 158	Visual Basic Programming	
CTEC 240	Fundamentals of Database Management	
CTEC 245	Fundamentals of Cloud Based Data Systems	
	e C S Course (EXCLUDING C S 110/BCIS 1110	
	o fulfill Technical/Major Requirements.)	
	Credits	16-17
Semester 3		
General Education Elec Compostion Level 2	ctive - Area I: Communications - English	3
ENGL 2210G	Professional & Technical Communication	
or ENGL 2221G	or Writing in the Humanities and Social Science	
Concentration Courses	s (choose three) - Select 9 credits from the	9
	courses used to fulfill Technical/Major	
CTEC 145	Introduction to Database Management	
or OECS 235	or Structured Query Language (SQL)	

CTEC 156 or OECS 216	Python Programming or Programming for the Web	
CTEC 185 or OECS 262	Routing and Switching Essentials or Essentials of Routing and Switching	
CTEC 230 or OECS 205 or OECS 234	Introduction to Linux Server Administration or Advanced Operating Systems: Administration or Linux Server	
CTEC 235 or OECS 237	Introduction to Windows Server Administration or Windows Server	
CTEC 280 or OECS 263	Scaling Networks or Network Fundamentals	
CTEC 285 or OECS 264	Connecting Networks or Network Routing Protocols	
E T 253	Networking Operating Systems II	
ET 277	Computer Networking I for IET	
OECS 205	Advanced Operating Systems: Administration	
OECS 230	Data Communications and Networks I	
OECS 231	Data Communications and Networks II	
Choose one from the f	ollowing:	3-4
CTEC 180	Introduction to Networking	
ET 153	Introduction to Computer Networks	
E T 155	Network Operating Systems I	
ET 273	Fundamentals of Networking Communications I	
OECS 261	Introduction to Networks	
	Credits	15-16
Semester 4		
Concentration Courses Concentration Courses	s (choose one) - Select 4 credits from the list of s in Semester 2.	4
CTEC 220 or OECS 221	Internship or Internship I	3
CTEC 290 or OECS 269	Network Security or Network Security	3-4
Approved Computer-Rebe found in Semester 2	elated Elective - A list of approved electives can 2.	3
	Credits	13-14
	Total Credits	60-64

Computer Technology (Programming) - Associate of Applied Science

Doña Ana Community College 2020-21 Catalog

(60-63 credits)

Degree requires a minimum of 60-63 credits and a cumulative GPA of 2.0. If a student has no basic typing skills, OATS 101 Keyboarding Basics is a prerequisite for all CTEC, CSEC, and OECS courses.

NOTE: Students must earn a final grade of C- or better in all Major Requirements courses and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

<u>The New Mexico General Education Requirements</u> (p. 52) can be found in the section titled, "Transfer Among New Mexico Institutions of Higher Education'.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 60 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Title	Credits
four of the following six content areas for a total of	12-14
ourses from Areas I, III and IV; students must the remaining areas to complete General s.	
and Algebra-Based Physics I Lab ³	
Algebra-Based Physics II and Algebra-Based Physics II Lab ³	
avioral Sciences	
rom the following:	
Introduction to Criminal Justice ³	
Introduction to Women, Gender, and Sexuality	
	3
	3
Witting in the numanities and Social Science	
the fellowing	3-4
3	3-4
•	
hnology-Related Math Course	
• •	3
PC Maintenance and Repair I	
Linux Workstation	3
Linux Operating System	
Windows Workstation	3
	four of the following six content areas for a total of burses from Areas I, III and IV; students must the remaining areas to complete General s. ions Composition I (grade of C- or better required) 3 s. Sciences om the following: Introduction to Computer Science 3 The Planets 3 Survey of Physics with Lab 3 Algebra-Based Physics I and Algebra-Based Physics I Lab 3 Algebra-Based Physics III and

or OECS 207	Windows	
CTEC 140	Introduction to Database Design	3
or OECS 220	Database Application and Design	
CTEC 180	Introduction to Networking	3-4
or OECS 261	Introduction to Networks	
or E T 153	Introduction to Computer Networks	
or E T 155	Network Operating Systems I	
or E T 273	Fundamentals of Networking Communications I	
CTEC 220	Internship	3
or OECS 221	Internship I	
CTEC 290	Network Security	3
or OECS 269	Network Security	
Select one course fro	m the following:	3-4
CTEC 145	Introduction to Database Management	
or OECS 235	Structured Query Language (SQL)	
CTEC 150	Mobile Application Programming	
or OECS 145	Mobile Application Development	
CTEC 152	JAVA Programming	
or OECS 195	Java Programming I	
or C S 152	Java Programming	
CTEC 154	C++ Programming	
or OECS 192	C++ Programming I	
or C S 151	C++ Programming	
CTEC 156	Python Programming	
or OECS 216	Programming for the Web	
CTEC 158	Visual Basic Programming	
CTEC 240	Fundamentals of Database Management	
CTEC 245	Fundamentals of Cloud Based Data Systems	
	te C S Course (EXCLUDING C S 110/BCIS 1110 to fulfill Technical/Major Requirements.)	
Concentration Course	vork	
Select 9 credits of pro	ogramming electives from the following	9
(EXCLUDING courses	used to fulfill Technical/Major Requirements.):	
CTEC 145	Introduction to Database Management	
or OECS 235	Structured Query Language (SQL)	
CTEC 150	Mobile Application Programming	
or OECS 145	Mobile Application Development	
CTEC 152	JAVA Programming	
or OECS 195	Java Programming I	
CTEC 154	C++ Programming	
or OECS 192	C++ Programming I	
CTEC 156	Python Programming	
or OECS 216	Programming for the Web	
CTEC 158	Visual Basic Programming	
	te C S Course (EXCLUDING BCIS 1110 and ulfill Technical/Major Requirements.)	
	proved computer-related electives (EXCLUDING	7
courses used to fulfil	l Technical/Major Requirements).	60.60
Total Credits		60-63

- Each course selected must be from a different area and students cannot take multiple courses in the same area.
- See the <u>General Education</u> (p. 52) section of the catalog for a full list of courses.
- Courses are identical to those offered at New Mexico State University Las Cruces (main) Campus.

Some courses not currently taught at DACC. Please refer to Class Schedule for a listing of courses taught at DACC.

(60-64 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

Degree requires a minimum of 60 credits and a cumulative GPA of 2.0. If a student has no basic typing skills, OATS 101 Keyboarding Basics is a prerequisite for all CTEC, CSEC, and OECS courses.

NOTE: Students must earn a final grade of C- or better in all Major Requirements courses and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 60 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course	Title	Credits
Semester 1		
Area I: Communication	ons - English Composition Level 1	4
ENGL 1110G	Composition I	
Area IV: Social/Behvio	oral Sciences - Choose one from the following:	3
CJUS 1110G	Introduction to Criminal Justice	
ECON 1110G	Survey of Economics	
ECON 2110G	Macroeconomic Principles	
ECON 2120G	Microeconomics Principles	
GNDR 2110G	Introduction to Women, Gender, and Sexuality Studies	
GNDR 2120G	Representing Women Across Cultures	
PSYC 1110G	Introduction to Psychology	
SOCI 1110G	Introduction to Sociology	
Choose one from the	following:	3-4
MATH 1215	Intermediate Algebra	
MATH 1220G	College Algebra	
MATH 1250G	Trigonometry & Pre-Calculus	
MATH 1350G	Introduction to Statistics	
MATH 1430G	Applications of Calculus I	
MATH 1521G	Calculus and Analytic Geometry II	
OATS 106	Business Mathematics	
OR Appropriate Te	chnology-Related Math Course	
CTEC 120 or OECS 185	IT Infrastructure Support I or PC Maintenance and Repair I	3
CTEC 135 or OECS 207	Windows Workstation or Windows	3
Semester 2	Credits	16-17
	choose one course from different NM General or VI in the NMSU/DACC Catalog.	3-4

Area III: Laboratory Sciences - Choose one from the following:

The Planets

ASTR 1120G

Credits

3

CS 171G	Introduction to Computer Science	
PHYS 1115G	Survey of Physics with Lab	
PHYS 1230G	Algebra-Based Physics I	
or PHYS 1230L PHYS 1240G	or Algebra-Based Physics I Lab Algebra-Based Physics II	
or PHYS 1240L	or Algebra-Based Physics II Lab	
CTEC 130	Linux Workstation	3
or OECS 204	or Linux Operating System	0
or OECS 220	Introduction to Database Design or Database Application and Design	3
Approved Computer-Re	elated Elective - Choose one from the following:	3
CTEC 145 or OECS 235	Introduction to Database Management or Structured Query Language (SQL)	
CTEC 150 or OECS 145	Mobile Application Programming or Mobile Application Development	
CTEC 152	JAVA Programming	
or OECS 195 or C S 152	or Java Programming I or Java Programming	
CTEC 154	C++ Programming	
or OECS 192 or C S 151	or C++ Programming I or C++ Programming	
CTEC 156	Python Programming	
or OECS 216	or Programming for the Web	
CTEC 158	Visual Basic Programming	
CTEC 240	Fundamentals of Database Management	
CTEC 245	Fundamentals of Cloud Based Data Systems	
	C S Course (EXCLUDING C S 110/BCIS 1110 of fulfill Technical/Major Requirements.)	
	Credits	16-17
Semester 3		
General Education Elec Composition Level 2	ctive - Area I: Communications - English	3
	Professional & Technical Communication or Writing in the Humanities and Social Science	3
Composition Level 2 ENGL 2210G or ENGL 2221G Concentration Courses	Professional & Technical Communication or Writing in the Humanities and Social	9
Composition Level 2 ENGL 2210G or ENGL 2221G Concentration Courses from the following (EX	Professional & Technical Communication or Writing in the Humanities and Social Science Select 9 credits of programming electives	
Composition Level 2 ENGL 2210G or ENGL 2221G Concentration Courses from the following (EXI Requirements.):	Professional & Technical Communication or Writing in the Humanities and Social Science s - Select 9 credits of programming electives CLUDING courses used to fulfill Technical/Major	
Composition Level 2 ENGL 2210G or ENGL 2221G Concentration Courses from the following (EXI Requirements.): CTEC 145	Professional & Technical Communication or Writing in the Humanities and Social Science S-Select 9 credits of programming electives CLUDING courses used to fulfill Technical/Major Introduction to Database Management	
Composition Level 2 ENGL 2210G or ENGL 2221G Concentration Courses from the following (EXI Requirements.): CTEC 145 or OECS 235 CTEC 150	Professional & Technical Communication or Writing in the Humanities and Social Science S-Select 9 credits of programming electives CLUDING courses used to fulfill Technical/Major Introduction to Database Management or Structured Query Language (SQL) Mobile Application Programming	
Composition Level 2 ENGL 2210G or ENGL 2221G Concentration Courses from the following (EXIREQUIREMENTS.): CTEC 145 or OECS 235 CTEC 150 or OECS 145 CTEC 152	Professional & Technical Communication or Writing in the Humanities and Social Science S - Select 9 credits of programming electives CLUDING courses used to fulfill Technical/Major Introduction to Database Management or Structured Query Language (SQL) Mobile Application Programming or Mobile Application Development JAVA Programming or Java Programming I C++ Programming	
Composition Level 2 ENGL 2210G or ENGL 2221G Concentration Courses from the following (EXIREQUIRE CTEC 145 or OECS 235 CTEC 150 or OECS 145 CTEC 152 or OECS 195 CTEC 154 or OECS 192 CTEC 154	Professional & Technical Communication or Writing in the Humanities and Social Science S-Select 9 credits of programming electives CLUDING courses used to fulfill Technical/Major Introduction to Database Management or Structured Query Language (SQL) Mobile Application Programming or Mobile Application Development JAVA Programming or Java Programming I C++ Programming or C++ Programming I Python Programming	
Composition Level 2 ENGL 2210G or ENGL 2221G Concentration Courses from the following (EXIREQUIREMENTS.): CTEC 145 or OECS 235 CTEC 150 or OECS 145 CTEC 152 or OECS 195 CTEC 154 or OECS 192 CTEC 156 or OECS 216	Professional & Technical Communication or Writing in the Humanities and Social Science S-Select 9 credits of programming electives CLUDING courses used to fulfill Technical/Major Introduction to Database Management or Structured Query Language (SQL) Mobile Application Programming or Mobile Application Development JAVA Programming or Java Programming I C++ Programming or C++ Programming I Python Programming or The Web	
Composition Level 2 ENGL 2210G or ENGL 2221G Concentration Courses from the following (EXI Requirements.): CTEC 145 or OECS 235 CTEC 150 or OECS 145 CTEC 152 or OECS 195 CTEC 154 or OECS 192 CTEC 156 or OECS 216 CTEC 158	Professional & Technical Communication or Writing in the Humanities and Social Science S-Select 9 credits of programming electives CLUDING courses used to fulfill Technical/Major Introduction to Database Management or Structured Query Language (SQL) Mobile Application Programming or Mobile Application Development JAVA Programming or Java Programming I C++ Programming or C++ Programming or C++ Programming or Programming for the Web	
Composition Level 2 ENGL 2210G or ENGL 2221G Concentration Courses from the following (EXI Requirements.): CTEC 145 or OECS 235 CTEC 150 or OECS 145 CTEC 152 or OECS 195 CTEC 154 or OECS 192 CTEC 156 or OECS 216 CTEC 158 OR Any Appropriates	Professional & Technical Communication or Writing in the Humanities and Social Science S-Select 9 credits of programming electives CLUDING courses used to fulfill Technical/Major Introduction to Database Management or Structured Query Language (SQL) Mobile Application Programming or Mobile Application Development JAVA Programming or Java Programming I C++ Programming or C++ Programming I Python Programming or The Web	
Composition Level 2 ENGL 2210G or ENGL 2221G Concentration Courses from the following (EXI Requirements.): CTEC 145 or OECS 235 CTEC 150 or OECS 145 CTEC 152 or OECS 195 CTEC 154 or OECS 192 CTEC 156 or OECS 216 CTEC 158 OR Any Appropriates	Professional & Technical Communication or Writing in the Humanities and Social Science S-Select 9 credits of programming electives CLUDING courses used to fulfill Technical/Major Introduction to Database Management or Structured Query Language (SQL) Mobile Application Programming or Mobile Application Development JAVA Programming or Java Programming I C++ Programming or C++ Programming or C++ Programming or Programming et C S Course (EXCLUDING BCIS 1110 and fill Technical/Major Requirements.)	
Composition Level 2 ENGL 2210G or ENGL 2221G Concentration Courses from the following (EXIREQUIREMENTS.): CTEC 145 or OECS 235 CTEC 150 or OECS 145 CTEC 152 or OECS 195 CTEC 154 or OECS 192 CTEC 156 or OECS 216 CTEC 158 OR Any Appropriate courses used to full	Professional & Technical Communication or Writing in the Humanities and Social Science S-Select 9 credits of programming electives CLUDING courses used to fulfill Technical/Major Introduction to Database Management or Structured Query Language (SQL) Mobile Application Programming or Mobile Application Development JAVA Programming or Java Programming I C++ Programming or C++ Programming or C++ Programming or Programming et C S Course (EXCLUDING BCIS 1110 and fill Technical/Major Requirements.)	9
Composition Level 2 ENGL 2210G or ENGL 2221G Concentration Courses from the following (EXIREQUIREMENTS.): CTEC 145 or OECS 235 CTEC 150 or OECS 145 CTEC 152 or OECS 195 CTEC 154 or OECS 192 CTEC 156 or OECS 216 CTEC 158 OR Any Appropriate courses used to full Choose one from the fet	Professional & Technical Communication or Writing in the Humanities and Social Science 8 - Select 9 credits of programming electives CLUDING courses used to fulfill Technical/Major Introduction to Database Management or Structured Query Language (SQL) Mobile Application Programming or Mobile Application Development JAVA Programming or Java Programming I C++ Programming or C++ Programming or C++ Programming or Programm	9
Composition Level 2 ENGL 2210G or ENGL 2221G Concentration Courses from the following (EXIREQUIREMENTS.): CTEC 145 or OECS 235 CTEC 150 or OECS 145 CTEC 152 or OECS 195 CTEC 154 or OECS 192 CTEC 156 or OECS 216 CTEC 158 OR Any Appropriate courses used to full Choose one from the for	Professional & Technical Communication or Writing in the Humanities and Social Science S-Select 9 credits of programming electives CLUDING courses used to fulfill Technical/Major Introduction to Database Management or Structured Query Language (SQL) Mobile Application Programming or Mobile Application Development JAVA Programming or Java Programming I C++ Programming or C++ Programming or C++ Programming or Programmin	9
Composition Level 2 ENGL 2210G or ENGL 2221G Concentration Courses from the following (EXIREQUIREMENTS.): CTEC 145 or OECS 235 CTEC 150 or OECS 145 CTEC 152 or OECS 195 CTEC 154 or OECS 192 CTEC 156 or OECS 216 CTEC 158 OR Any Appropriate courses used to full Choose one from the form	Professional & Technical Communication or Writing in the Humanities and Social Science S - Select 9 credits of programming electives CLUDING courses used to fulfill Technical/Major Introduction to Database Management or Structured Query Language (SQL) Mobile Application Programming or Mobile Application Development JAVA Programming or Java Programming I C++ Programming or C++ Programming or C++ Programming or Programming I E C S Course (EXCLUDING BCIS 1110 and fill Technical/Major Requirements.) collowing: Introduction to Networking Introduction to Computer Networks	9
Composition Level 2 ENGL 2210G or ENGL 2221G Concentration Courses from the following (EXIREQUIRED CONTROLL CO	Professional & Technical Communication or Writing in the Humanities and Social Science S-Select 9 credits of programming electives CLUDING courses used to fulfill Technical/Major Introduction to Database Management or Structured Query Language (SQL) Mobile Application Programming or Mobile Application Development JAVA Programming or Java Programming or C++ Programming or C++ Programming or C++ Programming or C++ Programming or Programming Introduction to Networking Introduction to Networking Introduction to Computer Networks Network Operating Systems I Fundamentals of Networking Communications	9

Semester 4

Select 7 credits of approved computer-related electives (EXCLUDING courses used to fulfill Technical/Major Requirements)		7
CTEC 220 Internship or OECS 221 or Internship I	•	3
CTEC 290 or OECS 269	Network Security or Network Security	3-4
	Credits	13-14
	Total Credits	60-64

Cybersecurity - Associate of Applied Science

Doña Ana Community College 2020-21 Catalog

(61-62 credits)

Prefix

CTEC 120

or OECS 185

NOTE: Degree requires a minimum of **60 credit hours** and a cumulative GPA of 2.0.

NOTE: Students must earn a final grade of C- or better in all Major Requirements courses and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 61-62 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

General Education		
Select one course from 12-14 credits ^{1, 2}	four of the following six content areas for a total of	12-14
J .	ourses from Areas I, II, III, and IV; students do onal courses to complete the General Education	
Area I: Communicat	tions - English Composition Level 1	
ENGL 1110G	Composition I ³	
Area II: Mathematic	es	
Choose one from th	e following (3-4 credits):	
MATH 1220G	College Algebra ³	
MATH 1250G	Trigonometry & Pre-Calculus ³	
MATH 1350G	Introduction to Statistics ³	
MATH 1430G	Applications of Calculus I ³	
MATH 1511G	Calculus and Analytic Geometry I ³	
MATH 1521G	Calculus and Analytic Geometry II ³	
MATH 1521H	Calculus and Analytic Geometry II Honors ³	
Area III: Laboratory	Sciences	
C S 171G	Introduction to Computer Science ³	
Area IV: Social/Beha	aivoral Sciences	
CJUS 1110G	Introduction to Criminal Justice ³	
General Education Elect Level 2	ive - Area I: Communications - English Composition	
ENGL 2210G	Professional & Technical Communication ³	3
Major Requirements		

IT Infrastructure Support I

PC Maintenance and Repair I

Total Credits

or OECS 204 Linux Operating System CTEC 135 Windows Workstation 3 or OECS 207 Windows CTEC 140 Introduction to Database Design 3 or OECS 220 Database Application and Design CTEC 230 Introduction to Linux Server Administration 3 or OECS 231 Linux Server CTEC 235 Introduction to Windows Server Administration 3 or OECS 237 Windows Server CTEC 180 Introduction to Networking 4 or OECS 261 Introduction to Networking 4 or OECS 261 Introduction to Networking 4 or OECS 262 Essentials of Routing and Switching CTEC 290 Network Security 3 or OECS 269 Network Security 3 or OECS 269 Introduction to Cryptography 3 OSEC 280 Introduction to Oryptography 3 OSEC 280 Introduction to Oryptography 3 OSEC 280 Introduction to Oryptography 3 OSEC 285 Introduction to Managing Information Security 3 OCHOS 261 Introduction to Managing Information Security 3 OCHOS 262 Introduction to Information Technology 3 OF OECS 105 Introduction to Information Technology 4 OF OECS 105 Introduction to Information Technology 5 OF OECS 105 Introduction to Information Technology 6 OF OECS 105 Introduction to Information Technology 1 OF OECS 105 Introduction to Information	CTEC 130	Linux Workstation	3
or OECS 207 Windows CTEC 140 Introduction to Database Design or OECS 220 Database Application and Design OFCEC 230 Introduction to Linux Server Administration or OECS 234 Linux Server CTEC 235 Introduction to Windows Server Administration or OECS 237 Windows Server CTEC 180 Introduction to Networking or OECS 261 Introduction to Networking or OECS 261 Introduction to Networks CTEC 185 Routing and Switching Essentials or OECS 262 Essentials of Routing and Switching CTEC 290 Network Security 30 OFCS 269 Network Security CSEC 275 Introduction to Cyptography 3 OFCS 280 Introduction to Managing Information Security 3 OFCS 285 Introduction to Managing Information Security 3 OFCS 285 Introduction to Managing Information Security 3 OFCS 285 Introduction to Information Technology OFCS 285 Introduction to Information Systems CTEC 110 Introduction to Information Systems CTEC 110 Software Applications for Technicians OFCS 275 PC Maintenance and Repair II CTEC 111 TOPICS IN IT OFCS 275 PC Maintenance and Repair II CTEC 122 IT Infrastructure Support II OFCES 275 PC Maintenance and Repair II CTEC 127 Introduction to Database Management OFCS 275 PC Maintenance and Repair II CTEC 145 Introduction to Database Management OFCS 275 PC Maintenance and Repair II CTEC 150 Mobile Application Development CTEC 151 OFCS 195 Java Programming OFCS 205 Secular Programming OFCS 206 Secular Programming OFCS 207 Internship I CTEC 150 Python Programming OFCS 208 Scaling Networks OFCES 209 Internship I CTEC 200 Internship I CTEC 201 Internship I CTEC 202 Internship I CTEC 203 Secular Programming OFCS 204 Fundamentals of Database Management CTEC 205 Special Topics OFCS 205 Independent Study OFCS 209 Independent Study OFCES 209 Independent Study			
CTEC 140 Introduction to Database Design or OECS 220 Database Application and Design or OECS 220 Introduction to Linux Server Administration or OECS 234 Linux Server CTEC 235 Introduction to Windows Server Administration 3 or OECS 237 Windows Server CTEC 180 Introduction to Networking 4 or OECS 261 Introduction to Networks CTEC 185 Routing and Switching Essentials 4 or OECS 262 Essentials of Routing and Switching CTEC 290 Network Security SEC 275 Introduction to Cyber Defense 3 Introduction to Oyber Defense 3 Introduction to Oyber Defense 3 Introduction to Oyber Defense 3 Introduction to Information Security CEC 285 Introduction to Information Technology or OECS 105 Introduction to Information Technology OFCS 105 Introduction to Information Technology OFCS 105 Introduction to Information Technology OFCS 105 Introduction to Information Systems CTEC 110 Software Applications for Technology OFCS 105 Introduction to Information Technology OFCS 105 Introduction Technology	CTEC 135	Windows Workstation	3
or OECS 220 Database Application and Design CTEC 230 Introduction to Linux Server Administration or OECS 234 Linux Server CTEC 235 Introduction to Windows Server Administration or OECS 237 Windows Server CTEC 180 Introduction to Networks CTEC 185 Routing and Switching Essentials or OECS 261 Introduction to Networks CTEC 185 Routing and Switching Essentials or OECS 262 Essentials of Routing and Switching CTEC 290 Network Security 3 or OECS 269 Network Security 3 SEC 280 Introduction to Cyber Defense 3 CSEC 285 Introduction to Windows Server Administration or OECS 265 Introduction to Cyber Defense 3 CNOOSE two from the following: 6 CTEC 105 Introduction to Information Security 3 CTEC 105 Introduction to Information Technology or OECS 105 Introduction to Information Technology or OECS 105 Introduction to Information Systems CTEC 110 Software Applications for Technicians or OECS 275 PC Maintenance and Repair II CTEC 111 Software Applications for Technicians or OECS 275 PC Maintenance and Repair II CTEC 121 Introduction to Internet of Things CTEC 122 IT Infrastructure Support II or OECS 275 PC Maintenance and Repair II CTEC 123 Introduction to Internet of Things CTEC 145 Introduction to Database Management or OECS 275 PC Maintenance and Repair II CTEC 150 Mobile Application Programming ORECS 145 Mobile Application Programming ORECS 145 Mobile Application Development CTEC 150 Java Programming CTEC 151 C++ Programming CTEC 152 JAVA Programming CTEC 153 Java Programming ORECS 195 Java Programming CTEC 154 C++ Programming CTEC 155 Java Programming CTEC 250 Internship ORECS 261 Internship ORECS 262 Internship ORECS 263 Network Fundamentals CTEC 285 Connecting Networks ORECS 265 Special Topics ORECS 265 Pundamentals of OLda Based Data Systems CTEC 255 Special Topics ORECS 269 Independent Study ORECS 269 Independent Study ORECS 269 Independent Study	or OECS 207	Windows	
CTEC 230 Introduction to Linux Server Administration 3 or OECS 234 Linux Server CTEC 235 Introduction to Windows Server Administration 3 or OECS 237 Windows Server CTEC 180 Introduction to Networks CTEC 185 Routing and Switching Essentials 4 or OECS 261 Introduction to Networks CTEC 185 Routing and Switching Essentials 4 or OECS 262 Essentials of Routing and Switching CTEC 290 Network Security 3 or OECS 269 Network Security CSEC 275 Introductory to Cryptography 3 OSEC 280 Introduction to Opber Defense 3 OSEC 285 Introduction to Managing Information Security 3 OSEC 285 Introduction to Information Technology or OECS 105 Introduction to Information Technology or OECS 105 Introduction to Information Systems CTEC 110 Software Applications for Technicians or OECS 275 PC Maintenance and Repair II CTEC 115 TOPICS IN IT OF CECS 275 OF Maintenance and Repair II CTEC 121 Introduction to Internet of Things CTEC 122 Introduction to Internet of Things CTEC 125 Introduction to Database Management OF OECS 275 PC Maintenance and Repair II CTEC 126 Introduction to Database Management OF OECS 275 OF Maintenance and Repair II CTEC 127 CTEC 128 Introduction to Database Management OF OECS 275 OF Maintenance and Repair II CTEC 129 OF Mobile Application Development CTEC 120 Unterduction to Database Management OF OECS 275 OF Maintenance and Repair II CTEC 150 Mobile Application Development CTEC 151 OF	CTEC 140	Introduction to Database Design	3
or OECS 234 Linux Server CTEC 235 Introduction to Windows Server Administration or OECS 237 Windows Server CTEC 180 Introduction to Networking or OECS 261 Introduction to Networks OTEC 185 Routing and Switching Essentials of OECS 262 Essentials of Routing and Switching CTEC 290 Network Security 30 OECS 269 OECS 260 O	or OECS 220	Database Application and Design	
CTEC 235 Introduction to Windows Server Administration or OECS 237 Windows Server CTEC 180 Introduction to Networking 4 or OECS 261 Introduction to Networks CTEC 185 Routing and Switching Essentials 4 or OECS 262 Essentials of Routing and Switching CTEC 290 Network Security 3 or OECS 269 Network Security 3 or OECS 269 Introductory to Cryptography 3 OECS 280 Introduction to Oyber Defense 3 OESC 285 Introduction to Oyber Defense 3 OESC 285 Introduction to Oyber Defense 3 OESC 285 Introduction to Information Security 3 OHOOSE WINDOWS Introduction to Information Technology 1 OF OECS 105 Introduction to Information Technology 1 OF OECS 105 Introduction to Information Systems 1 OF OECS 275 PC Maintenance and Repair II OF OECS 275 PC OECS 2	CTEC 230	Introduction to Linux Server Administration	3
or OECS 237 Windows Server CTEC 180 Introduction to Networking or OECS 261 Introduction to Networks CTEC 185 Routing and Switching Essentials or OECS 262 Essentials of Routing and Switching CTEC 290 Network Security 3 or OECS 269 Network Security 3 or OECS 269 Network Security 3 or OECS 269 Introductory to Cryptography 3 OESC 280 Introduction to Oyber Defense 3 OESC 280 Introduction to Managing Information Security 3 OESC 280 Introduction to Information Technology or OECS 105 Introduction to Information Systems CTEC 110 Software Applications for Technicians or OECS 275 PC Maintenance and Repair II CTEC 115 TOPICS IN IT OF OECS 275 PC Maintenance and Repair II CTEC 122 IT Infrastructure Support II OF OECS 275 PC Maintenance and Repair II CTEC 127 Introduction to Internet of Things CTEC 128 Introduction to Database Management OF OECS 235 Structured Query Language (SQL) CTEC 150 Mobile Application Development CTEC 151 JAVA Programming OF OECS 195 Java Programming OF OECS 295 Network Fundamentals OF OECS 295 Network Fundamentals OF OECS 295 Network Fundamentals OF OECS 295 Special Topics OF OECS 295 Special Topics OF OECS 295 Special Topics OF OECS 295 Independent Study OF OECS 299 Independent Study OF OECS 299 Independent Study	or OECS 234	Linux Server	
CTEC 180 Introduction to Networking or OECS 261 Introduction to Networks CTEC 185 Routing and Switching Essentials or OECS 262 Essentials of Routing and Switching CTEC 290 Network Security 3 or OECS 269 Network Security CSEC 275 Introductory to Cryptography 3 CSEC 280 Introduction to Oyber Defense 3 CSEC 285 Introduction to Managing Information Security 3 Choose two from the following: 6 CTEC 105 Introduction to Information Technology or OECS 105 Introduction to Information Technology or OECS 105 Introduction to Information Technology or OECS 105 Introduction to Information Systems CTEC 110 Software Applications for Technicians or OECS 275 PC Maintenance and Repair II CTEC 115 TOPICS IN IT OF OECS 275 PC Maintenance and Repair II CTEC 121 Introduction to Internet of Things CTEC 122 IT Infrastructure Support II or OECS 275 PC Maintenance and Repair II CTEC 127 Introduction to Database Management OF OECS 275 PC Maintenance and Repair II CTEC 127 Introduction to Database Management OF OECS 275 PC Maintenance and Repair II CTEC 127 Introduction to Database Management OF OECS 275 PC Maintenance Infrastructure Support II or OECS 275 PC Maintenance Infrastructure Support II or OECS 275 PC Maintenance Infrastructure Support II or OECS 275 PC Maintenance Infrastructure Support II CTEC 127 Introduction to Database Management OF OECS 235 Structured Query Language (SQL) CTEC 150 Mobile Application Programming OF OECS 215 Java Programming OF OECS 215 Java Programming OF OECS 215 Java Programming OF OECS 215 Java Programming OF OECS 215 Java Programming OF OECS 215 Java Programming OF OECS 216 Internship OF OECS 217 Internship OF OECS 218 OF OECS 221 Internship OF OECS 222 Internship OF OECS 223 Network Fundamentals OECS 224 Network Routing Protocols OECS 225 Special Topics OF OECS 229 Independent Study OF OECS 299 Independent Study OF OECS 299 Independent Study	CTEC 235	Introduction to Windows Server Administration	3
or OECS 261 Introduction to Networks CTEC 185 Routing and Switching Essentials or OECS 262 Essentials of Routing and Switching CTEC 290 Network Security 3 or OECS 269 Network Security SEC 275 Introductory to Cryptography 3 CSEC 280 Introduction to Oyber Defense 3 CSEC 285 Introduction to Managing Information Security 3 Choose two from the following: 6 CTEC 105 Introduction to Information Technology or OECS 105 Introduction to Information Technology or OECS 105 Introduction to Information Systems CTEC 110 Software Applications for Technicians or OECS 275 PC Maintenance and Repair II CTEC 115 TOPICS IN IT or OECS 155 Special Topics - Introductory Computer Technology CTEC 122 IT Infrastructure Support II OF OECS 275 PC Maintenance and Repair II CTEC 127 Introduction to Internet of Things CTEC 128 Introduction to Database Management or OECS 235 Structured Query Language (SQL) CTEC 150 Mobile Application Programming or OECS 145 Mobile Application Programming or OECS 195 Java Programming CTEC 154 C++ Programming OF OECS 195 Java Programming CTEC 156 Visual Basic Programming CTEC 157 Java Programming CTEC 158 Visual Basic Programming CTEC 159 Java Programming CTEC 20 Internship OF OECS 231 Networks OF OECS 243 Network Fundamentals CTEC 280 Scaling Networks OF OECS 264 Network Poundamentals CTEC 285 Connecting Networks OF OECS 265 Special Topics OF OECS 299 Independent Study OF OECS 299 Independent Study	or OECS 237	Windows Server	
CTEC 185 Routing and Switching Essentials or OECS 262 Essentials of Routing and Switching CTEC 290 Network Security or OECS 269 Network Security CSEC 275 Introductory to Cryptography CSEC 280 Introduction to Oyber Defense SSEC 285 Introduction to Managing Information Security 3 Choose two from the following: CTEC 105 Introduction to Information Technology or OECS 105 Introduction to Information Technology or OECS 1110 Introduction to Information Technology or OECS 11110 Introduction to Information Systems CTEC 110 Software Applications for Technicians or OECS 275 PC Maintenance and Repair II CTEC 115 TOPICS IN IT or OECS 155 Special Topics - Introductory Computer Technology CTEC 122 IT Infrastructure Support II or OECS 275 PC Maintenance and Repair II CTEC 127 Introduction to Internet of Things CTEC 128 Structured Query Language (SQL) CTEC 129 Mobile Application Programming or OECS 235 Structured Query Language (SQL) CTEC 150 Mobile Application Development CTEC 151 JAVA Programming OF OECS 195 Java Programming OF OECS 195 Java Programming CTEC 154 C++ Programming CTEC 155 Visual Basic Programming OECS 195 Java Programming CTEC 156 Python Programming CTEC 157 JAVA Programming OECS 195 Java Programming CTEC 280 Scaling Networks OF OECS 261 Network Fundamentals CTEC 280 Scaling Networks OF OECS 263 Network Fundamentals CTEC 240 Fundamentals of Database Management CTEC 245 Fundamentals of Database Management CTEC 245 Special Topics CTEC 299 Independent Study OF OECS 299 Independent Study OF OECS 299 Independent Study	CTEC 180	Introduction to Networking	4
CTEC 290 Network Security 3 or OECS 269 Network Security 3 CSEC 275 Introductory to Cryptography 3 CSEC 280 Introduction to Cyber Defense 3 CSEC 285 Introduction to Cyber Defense 3 CSEC 285 Introduction to Managing Information Security 3 Choose two from the following: 6 CTEC 105 Introduction to Information Technology or OECS 105 Introduction to Information Technology or OECS 105 Introduction to Information Technology or OECS 105 Introduction to Information Systems CTEC 110 Software Applications for Technicians or OECS 275 PC Maintenance and Repair II CTEC 115 TOPICS IN IT or OECS 155 Special Topics - Introductory Computer Technology CTEC 122 IT Infrastructure Support II OF OECS 275 PC Maintenance and Repair II CTEC 127 Introduction to Internet of Things CTEC 145 Introduction to Database Management OF OECS 235 Structured Query Language (SQL) CTEC 127 Introduction To Database Management OF OECS 145 Mobile Application Development CTEC 152 JAVA Programming OF OECS 195 Java Programming OF OECS 195 Java Programming CTEC 154 C++ Programming OF OECS 195 Java Programming CTEC 156 Python Programming CTEC 156 Python Programming CTEC 157 JAVA Programming CTEC 158 Visual Basic Programming OF OECS 221 Internship I CTEC 280 Scaling Networks OF OECS 261 Network Fundamentals CTEC 280 Scaling Networks OF OECS 261 Network Fundamentals CTEC 285 Connecting Networks OF OECS 265 Network Fundamentals CTEC 245 Fundamentals of Cloud Based Data Systems CTEC 245 Fundamentals of Cloud Based Data Systems CTEC 255 Special Topics CTEC 299 Independent Study OF OECS 299 Independent Study	or OECS 261	Introduction to Networks	
CTEC 290 Network Security or OECS 269 Network Security CSEC 275 Introductory to Cryptography 3 CSEC 280 Introduction to Cyber Defense 3 CSEC 285 Introduction to Cyber Defense 6 CSEC 285 Introduction to Managing Information Security 3 Choose two from the following: 6 CTEC 105 Introduction to Information Technology or OECS 105 Introduction to Information Technology or BCIS 1110 Introduction to Information Technology or BCIS 1110 Introduction to Information Systems CTEC 110 Software Applications for Technicians or OECS 275 PC Maintenance and Repair II CTEC 115 TOPICS IN IT or OECS 155 Special Topics - Introductory Computer Technology CTEC 122 IT Infrastructure Support II or OECS 275 PC Maintenance and Repair II CTEC 127 Introduction to Internet of Things CTEC 128 Introduction to Database Management or OECS 235 Structured Query Language (SQL) CTEC 150 Mobile Application Programming or OECS 145 Mobile Application Programming OFECS 145 Application Development CTEC 152 JAVA Programming CTEC 154 C++ Programming I CTEC 155 C++ Programming I CTEC 156 Python Programming CTEC 158 Visual Basic Programming CTEC 159 Java Programming CTEC 200 Internship I CTEC 220 Internship I CTEC 220 Internship I CTEC 220 Scaling Networks Or OECS 221 Internship I CTEC 225 Connecting Networks Or OECS 264 Network Routing Protocols CTEC 245 Fundamentals of Cloud Based Data Systems CTEC 255 Special Topics CTEC 299 Independent Study Or OECS 299 Independent Study	CTEC 185	Routing and Switching Essentials	4
or OECS 269 Network Security CSEC 275 Introductory to Cryptography 3 CSEC 280 Introduction to Cyber Defense 3 CSEC 285 Introduction to Managing Information Security 3 Choose two from the following: 6 CTEC 105 Introduction to Information Technology or OECS 105 Introduction to Information Technology or BCIS 1110 Introduction to Information Systems CTEC 110 Software Applications for Technicians or OECS 275 PC Maintenance and Repair II CTEC 115 TOPICS IN IT or OECS 155 Special Topics - Introductory Computer Technology CTEC 122 IT Infrastructure Support II or OECS 275 PC Maintenance and Repair II CTEC 127 Introduction to Infernet of Things CTEC 145 Introduction to Database Management or OECS 235 Structured Query Language (SQL) CTEC 150 Mobile Application Programming or OECS 145 Mobile Application Development CTEC 152 JAVA Programming OF OECS 195 Java Programming OECS 221 Internship OF OECS 221 Internship OF OECS 221 Internship OF OECS 221 Internship OF OECS 223 Network Fundamentals CTEC 280 Scaling Networks OF OECS 264 Network Routing Protocols CTEC 245 Fundamentals of Database Management CTEC 245 Fundamentals of Cloud Based Data Systems CTEC 255 Special Topics CTEC 299 Independent Study or OECS 299 Independent Study	or OECS 262	Essentials of Routing and Switching	
CSEC 275 Introductory to Cryptography 3 CSEC 280 Introduction to Cyber Defense 3 CSEC 285 Introduction to Cyber Defense 3 CSEC 285 Introduction to Managing Information Security 3 Choose two from the following: 6 CTEC 105 Introduction to Information Technology or OECS 105 Introduction to Information Technology or OECS 105 Introduction to Information Systems CTEC 110 Software Applications for Technicians or OECS 275 PC Maintenance and Repair II CTEC 115 TOPICS IN IT or OECS 155 Special Topics - Introductory Computer Technology CTEC 122 IT Infrastructure Support II or OECS 275 PC Maintenance and Repair II CTEC 127 Introduction to Internet of Things CTEC 145 Introduction to Internet of Things CTEC 145 Introduction to Database Management or OECS 235 Structured Query Language (SQL) CTEC 150 Mobile Application Programming or OECS 145 Mobile Application Development CTEC 152 JAVA Programming OF OECS 195 Java Programming I CTEC 154 C++ Programming I CTEC 155 Visual Basic Programming CTEC 156 Visual Basic Programming CTEC 157 JAVA Programming I CTEC 158 Visual Basic Programming CTEC 200 Internship OF OECS 221 Internship I CTEC 280 Scaling Networks OF OECS 263 Network Fundamentals CTEC 280 Scaling Networks OF OECS 264 Network Routing Protocols CTEC 245 Fundamentals of Database Management CTEC 245 Special Topics OF OECS 255 Special Topics CTEC 299 Independent Study OF OECS 299 Independent Study	CTEC 290	Network Security	3
CSEC 280 Introduction to Cyber Defense 3 CSEC 285 Introduction to Managing Information Security 3 Choose two from the following: 6 CTEC 105 Introduction to Information Technology or OECS 105 Introduction to Information Technology or BCIS 1110 Introduction to Information Systems CTEC 110 Software Applications for Technicians or OECS 275 PC Maintenance and Repair II CTEC 115 TOPICS IN IT or OECS 155 Special Topics - Introductory Computer Technology CTEC 122 IT Infrastructure Support II OF OECS 275 PC Maintenance and Repair II CTEC 127 Introduction to Internet of Things CTEC 145 Introduction to Database Management OF OECS 235 Structured Query Language (SQL) CTEC 150 Mobile Application Programming OF OECS 145 Mobile Application Development CTEC 152 JAVA Programming OF OECS 195 Java Programming OF OECS 195 C++ Programming OF OECS 195 Java Programming CTEC 156 Python Programming OECS 195 Java Programming OECS 195 Java Programming OECS 221 Internship OF OECS 221 Internship OF OECS 223 Network Fundamentals CTEC 280 Scaling Networks OF OECS 264 Network Fundamentals CTEC 285 Connecting Networks OF OECS 265 Special Topics OF OECS 269 Independent Study OF OECS 299 Independent Study	or OECS 269	Network Security	
CSEC 285 Introduction to Managing Information Security 3 Choose two from the following: 6 CTEC 105 Introduction to Information Technology or OECS 105 Introduction to Information Technology or BCIS 1110 Introduction to Information Systems CTEC 110 Software Applications for Technicians or OECS 275 PC Maintenance and Repair II CTEC 115 TOPICS IN IT or OECS 155 Special Topics - Introductory Computer Technology CTEC 122 IT Infrastructure Support II or OECS 275 PC Maintenance and Repair II CTEC 127 Introduction to Internet of Things CTEC 128 Introduction to Database Management or OECS 235 Structured Query Language (SQL) CTEC 150 Mobile Application Programming or OECS 145 Mobile Application Development CTEC 152 JAVA Programming OF OECS 195 Java Programming CTEC 154 C++ Programming OF OECS 195 Java Programming CTEC 156 Python Programming CTEC 158 Visual Basic Programming OECS 195 Java Programming OECS 195 Java Programming CTEC 220 Internship or OECS 221 Internship CTEC 220 Scaling Networks or OECS 263 Network Fundamentals CTEC 285 Connecting Networks or OECS 264 Network Routing Protocols CTEC 245 Fundamentals of Database Management CTEC 245 Fundamentals of Cloud Based Data Systems CTEC 255 Special Topics CTEC 299 Independent Study or OECS 299 Independent Study		Introductory to Cryptography	3
Choose two from the following: CTEC 105	CSEC 280	Introduction to Cyber Defense	3
CTEC 105 Introduction to Information Technology or OECS 105 Introduction to Information Technology or BCIS 11110 Introduction to Information Systems CTEC 110 Software Applications for Technicians or OECS 275 PC Maintenance and Repair II CTEC 115 TOPICS IN IT OF OECS 155 Special Topics - Introductory Computer Technology CTEC 122 IT Infrastructure Support II OF OECS 275 PC Maintenance and Repair II CTEC 127 Introduction to Internet of Things CTEC 128 Introduction to Database Management OF OECS 235 Structured Query Language (SQL) CTEC 150 Mobile Application Programming OF OECS 145 Mobile Application Development CTEC 152 JAVA Programming OF OECS 195 Java Programming OF OECS 195 Java Programming CTEC 154 C++ Programming OF OECS 195 C++ Programming CTEC 156 Python Programming CTEC 157 JAVA Programming CTEC 158 Visual Basic Programming OECS 195 Java Programming CTEC 220 Internship OF OECS 221 Internship I CTEC 220 Scaling Networks OF OECS 263 Network Fundamentals CTEC 285 Connecting Networks OF OECS 264 Network Routing Protocols CTEC 245 Fundamentals of Database Management CTEC 245 Fundamentals of Cloud Based Data Systems CTEC 255 Special Topics OF OECS 299 Independent Study OF OECS 299 Independent Study	CSEC 285	Introduction to Managing Information Security	3
or OECS 105 or BCIS 1110 Introduction to Information Technology or BCIS 1110 Software Applications for Technicians or OECS 275 PC Maintenance and Repair II CTEC 115 TOPICS IN IT or OECS 155 Special Topics - Introductory Computer Technology CTEC 122 IT Infrastructure Support II or OECS 275 PC Maintenance and Repair II CTEC 127 Introduction to Internet of Things CTEC 128 Introduction to Database Management or OECS 235 Structured Query Language (SQL) CTEC 150 Mobile Application Development CTEC 152 JAVA Programming or OECS 145 OF C++ Programming I CTEC 154 C++ Programming I CTEC 155 CTEC 156 Visual Basic Programming OECS 195 Java Programming OECS 195 OF CTEC 220 Internship or OECS 221 Internship CTEC 220 Internship CTEC 280 Scaling Networks or OECS 264 Network Fundamentals CTEC 245 Fundamentals of Database Management CTEC 245 Fundamentals of Cloud Based Data Systems CTEC 255 Special Topics OT OECS 299 Independent Study or OECS 299 Independent Study	Choose two from the f	following:	6
or BCIS 1110 Introduction to Information Systems CTEC 110 Software Applications for Technicians or OECS 275 PC Maintenance and Repair II CTEC 115 TOPICS IN IT or OECS 155 Special Topics - Introductory Computer Technology CTEC 122 IT Infrastructure Support II or OECS 275 PC Maintenance and Repair II CTEC 127 Introduction to Internet of Things CTEC 145 Introduction to Database Management or OECS 235 Structured Query Language (SQL) CTEC 150 Mobile Application Programming or OECS 145 Mobile Application Development CTEC 152 JAVA Programming or OECS 195 Java Programming I CTEC 154 C++ Programming or OECS 192 C++ Programming CTEC 156 Python Programming CTEC 158 Visual Basic Programming OECS 195 Java Programming OECS 195 Java Programming CTEC 220 Internship or OECS 221 Internship I CTEC 280 Scaling Networks or OECS 263 Network Fundamentals CTEC 285 Connecting Networks or OECS 264 Network Routing Protocols CTEC 245 Fundamentals of Database Management CTEC 245 Fundamentals of Cloud Based Data Systems CTEC 255 Special Topics or OECS 259 Independent Study or OECS 299 Independent Study	CTEC 105	Introduction to Information Technology	
CTEC 110 Software Applications for Technicians or OECS 275 PC Maintenance and Repair II CTEC 115 TOPICS IN IT or OECS 155 Special Topics - Introductory Computer Technology CTEC 122 IT Infrastructure Support II or OECS 275 PC Maintenance and Repair II CTEC 127 Introduction to Internet of Things CTEC 145 Introduction to Database Management or OECS 235 Structured Query Language (SQL) CTEC 150 Mobile Application Programming or OECS 145 Mobile Application Development CTEC 152 JAVA Programming or OECS 195 Java Programming I CTEC 154 C++ Programming I CTEC 156 Python Programming CTEC 158 Visual Basic Programming OECS 195 Java Programming OECS 195 Java Programming I CTEC 220 Internship or OECS 221 Internship I CTEC 280 Scaling Networks or OECS 263 Network Fundamentals CTEC 285 Connecting Networks or OECS 264 Network Routing Protocols CTEC 240 Fundamentals of Database Management CTEC 255 Special Topics or OECS 259 Independent Study or OECS 299 Independent Study	or OECS 105	Introduction to Information Technology	
or OECS 275 PC Maintenance and Repair II CTEC 115 TOPICS IN IT or OECS 155 Special Topics - Introductory Computer Technology CTEC 122 IT Infrastructure Support II or OECS 275 PC Maintenance and Repair II CTEC 127 Introduction to Internet of Things CTEC 145 Introduction to Database Management or OECS 235 Structured Query Language (SQL) CTEC 150 Mobile Application Programming or OECS 145 Mobile Application Development CTEC 152 JAVA Programming or OECS 195 Java Programming I CTEC 154 C++ Programming or OECS 192 C++ Programming I CTEC 156 Python Programming CTEC 158 Visual Basic Programming OECS 195 Java Programming I or CTEC 152 JAVA Programming I CTEC 220 Internship or OECS 221 Internship I CTEC 220 Scaling Networks or OECS 263 Network Fundamentals CTEC 285 Connecting Networks or OECS 264 Network Routing Protocols CTEC 240 Fundamentals of Database Management CTEC 245 Special Topics or OECS 259 Independent Study or OECS 299 Independent Study	or BCIS 1110	Introduction to Information Systems	
CTEC 115 or OECS 155 Special Topics - Introductory Computer Technology CTEC 122 IT Infrastructure Support II or OECS 275 PC Maintenance and Repair II CTEC 127 Introduction to Internet of Things CTEC 145 Introduction to Database Management or OECS 235 Structured Query Language (SQL) CTEC 150 Mobile Application Programming or OECS 145 Mobile Application Development CTEC 152 JAVA Programming or OECS 195 Java Programming I CTEC 154 C++ Programming I CTEC 155 Visual Basic Programming OECS 195 Java Programming I CTEC 158 Visual Basic Programming OECS 195 Java Programming I OECS 195 OFCE 220 Internship or OECS 221 Internship CTEC 280 Scaling Networks or OECS 263 Network Fundamentals CTEC 285 Connecting Networks or OECS 264 Network Routing Protocols CTEC 240 Fundamentals of Database Management CTEC 255 Special Topics OT OECS 299 Independent Study or OECS 299 Independent Study	CTEC 110	Software Applications for Technicians	
Or OECS 155 Special Topics - Introductory Computer Technology CTEC 122 IT Infrastructure Support II Or OECS 275 PC Maintenance and Repair II CTEC 127 Introduction to Internet of Things CTEC 145 Introduction to Database Management Or OECS 235 Structured Query Language (SQL) CTEC 150 Mobile Application Programming Or OECS 145 Mobile Application Development CTEC 152 JAVA Programming Or OECS 195 Java Programming Or OECS 195 C++ Programming Or OECS 192 C++ Programming CTEC 156 Python Programming CTEC 158 Visual Basic Programming OECS 195 Java Programming OECS 195 Java Programming CTEC 220 Internship Or OECS 221 Internship I CTEC 280 Scaling Networks Or OECS 263 Network Fundamentals CTEC 285 Connecting Networks Or OECS 264 Network Routing Protocols CTEC 240 Fundamentals of Database Management CTEC 245 Fundamentals of Cloud Based Data Systems CTEC 255 Special Topics Or OECS 299 Independent Study Or OECS 299 Independent Study	or OECS 275	PC Maintenance and Repair II	
CTEC 122 IT Infrastructure Support II or OECS 275 PC Maintenance and Repair II CTEC 127 Introduction to Internet of Things CTEC 145 Introduction to Database Management or OECS 235 Structured Query Language (SQL) CTEC 150 Mobile Application Programming or OECS 145 Mobile Application Development CTEC 152 JAVA Programming or OECS 195 Java Programming I CTEC 154 C++ Programming or OECS 192 C++ Programming CTEC 156 Python Programming CTEC 158 Visual Basic Programming OECS 195 Java Programming I OECS 195 Java Programming OECS 195 Java Programming OECS 210 Internship or OECS 221 Internship CTEC 220 Internship CTEC 280 Scaling Networks or OECS 263 Network Fundamentals CTEC 285 Connecting Networks or OECS 264 Network Routing Protocols CTEC 240 Fundamentals of Database Management CTEC 245 Fundamentals of Cloud Based Data Systems CTEC 255 Special Topics OT OECS 299 Independent Study	CTEC 115	TOPICS IN IT	
CTEC 122 IT Infrastructure Support II or OECS 275 PC Maintenance and Repair II CTEC 127 Introduction to Internet of Things CTEC 145 Introduction to Database Management or OECS 235 Structured Query Language (SQL) CTEC 150 Mobile Application Programming or OECS 145 Mobile Application Development CTEC 152 JAVA Programming or OECS 195 Java Programming I CTEC 154 C++ Programming or OECS 192 C++ Programming CTEC 156 Python Programming CTEC 158 Visual Basic Programming OECS 195 Java Programming I OECS 195 Java Programming OECS 195 Java Programming OECS 221 Internship or OECS 221 Internship I CTEC 280 Scaling Networks or OECS 263 Network Fundamentals CTEC 285 Connecting Networks or OECS 264 Network Routing Protocols CTEC 240 Fundamentals of Database Management CTEC 245 Fundamentals of Cloud Based Data Systems CTEC 255 Special Topics CTEC 299 Independent Study or OECS 299 Independent Study	or OECS 155	Special Topics - Introductory Computer Technology	
or OECS 275 PC Maintenance and Repair II CTEC 127 Introduction to Internet of Things CTEC 145 Introduction to Database Management or OECS 235 Structured Query Language (SQL) CTEC 150 Mobile Application Programming or OECS 145 Mobile Application Development CTEC 152 JAVA Programming or OECS 195 Java Programming I CTEC 154 C++ Programming or OECS 192 C++ Programming CTEC 156 Python Programming CTEC 158 Visual Basic Programming OECS 195 Java Programming I OTEC 220 Internship or OECS 221 Internship I CTEC 280 Scaling Networks or OECS 263 Network Fundamentals CTEC 285 Connecting Networks or OECS 264 Network Routing Protocols CTEC 240 Fundamentals of Database Management CTEC 245 Special Topics or OECS 255 Special Topics OTEC 299 Independent Study	CTEC 122	· · · · · · · · · · · · · · · · · · ·	
CTEC 127 Introduction to Internet of Things CTEC 145 Introduction to Database Management or OECS 235 Structured Query Language (SQL) CTEC 150 Mobile Application Programming or OECS 145 Mobile Application Development CTEC 152 JAVA Programming or OECS 195 Java Programming I CTEC 154 C++ Programming or OECS 192 C++ Programming CTEC 156 Python Programming CTEC 158 Visual Basic Programming OECS 195 Java Programming I or CTEC 152 JAVA Programming CTEC 201 Internship or OECS 221 Internship I CTEC 280 Scaling Networks or OECS 263 Network Fundamentals CTEC 285 Connecting Networks or OECS 264 Network Routing Protocols CTEC 240 Fundamentals of Database Management CTEC 245 Special Topics or OECS 255 Special Topics CTEC 299 Independent Study or OECS 299 Independent Study	or OECS 275		
CTEC 145 Introduction to Database Management or OECS 235 Structured Query Language (SQL) CTEC 150 Mobile Application Programming or OECS 145 Mobile Application Development CTEC 152 JAVA Programming or OECS 195 Java Programming I CTEC 154 C++ Programming or OECS 192 C++ Programming I CTEC 156 Python Programming CTEC 158 Visual Basic Programming OECS 195 Java Programming I OECS 195 Java Programming OECS 195 OF		·	
or OECS 235 Structured Query Language (SQL) CTEC 150 Mobile Application Programming or OECS 145 Mobile Application Development CTEC 152 JAVA Programming or OECS 195 Java Programming I CTEC 154 C++ Programming or OECS 192 C++ Programming I CTEC 156 Python Programming CTEC 158 Visual Basic Programming OECS 195 Java Programming I or CTEC 152 JAVA Programming I or CTEC 152 JAVA Programming CTEC 220 Internship or OECS 221 Internship I CTEC 280 Scaling Networks or OECS 263 Network Fundamentals CTEC 285 Connecting Networks or OECS 264 Network Routing Protocols CTEC 240 Fundamentals of Database Management CTEC 245 Fundamentals of Cloud Based Data Systems CTEC 255 Special Topics or OECS 259 Independent Study or OECS 299 Independent Study	CTEC 145		
CTEC 150 Mobile Application Programming or OECS 145 Mobile Application Development CTEC 152 JAVA Programming or OECS 195 Java Programming I CTEC 154 C++ Programming I CTEC 156 Python Programming CTEC 158 Visual Basic Programming OECS 195 Java Programming OECS 195 Java Programming OECS 195 Java Programming CTEC 220 Internship or OECS 221 Internship I CTEC 280 Scaling Networks or OECS 263 Network Fundamentals CTEC 285 Connecting Networks or OECS 264 Network Routing Protocols CTEC 240 Fundamentals of Database Management CTEC 245 Fundamentals of Cloud Based Data Systems CTEC 255 Special Topics or OECS 259 Independent Study or OECS 299 Independent Study	or OECS 235	· · · · · · · · · · · · · · · · · · ·	
or OECS 145 Mobile Application Development CTEC 152 JAVA Programming or OECS 195 Java Programming I CTEC 154 C++ Programming or OECS 192 C++ Programming I CTEC 156 Python Programming CTEC 158 Visual Basic Programming OECS 195 Java Programming I or CTEC 152 JAVA Programming CTEC 220 Internship or OECS 221 Internship I CTEC 280 Scaling Networks or OECS 263 Network Fundamentals CTEC 285 Connecting Networks or OECS 264 Network Routing Protocols CTEC 240 Fundamentals of Database Management CTEC 245 Fundamentals of Cloud Based Data Systems CTEC 255 Special Topics or OECS 259 Independent Study or OECS 299 Independent Study			
CTEC 152 JAVA Programming or OECS 195 Java Programming I CTEC 154 C++ Programming or OECS 192 C++ Programming I CTEC 156 Python Programming CTEC 158 Visual Basic Programming OECS 195 Java Programming I or CTEC 152 JAVA Programming CTEC 220 Internship or OECS 221 Internship I CTEC 280 Scaling Networks or OECS 263 Network Fundamentals CTEC 285 Connecting Networks or OECS 264 Network Routing Protocols CTEC 240 Fundamentals of Database Management CTEC 245 Fundamentals of Cloud Based Data Systems CTEC 255 Special Topics or OECS 255 Special Topics CTEC 299 Independent Study or OECS 299 Independent Study		,,	
or OECS 195 Java Programming I CTEC 154 C++ Programming or OECS 192 C++ Programming I CTEC 156 Python Programming CTEC 158 Visual Basic Programming OECS 195 Java Programming I or CTEC 152 JAVA Programming CTEC 220 Internship or OECS 221 Internship I CTEC 280 Scaling Networks or OECS 263 Network Fundamentals CTEC 285 Connecting Networks or OECS 264 Network Routing Protocols CTEC 240 Fundamentals of Database Management CTEC 245 Fundamentals of Cloud Based Data Systems CTEC 255 Special Topics or OECS 259 Independent Study or OECS 299 Independent Study			
CTEC 154 C++ Programming or OECS 192 C++ Programming I CTEC 156 Python Programming CTEC 158 Visual Basic Programming OECS 195 Java Programming I or CTEC 152 JAVA Programming CTEC 220 Internship or OECS 221 Internship I CTEC 280 Scaling Networks or OECS 263 Network Fundamentals CTEC 285 Connecting Networks or OECS 264 Network Routing Protocols CTEC 240 Fundamentals of Database Management CTEC 245 Special Topics or OECS 255 Special Topics CTEC 299 Independent Study or OECS 299 Independent Study	0.20.02		
or OECS 192		<u>. </u>	
CTEC 156 Python Programming CTEC 158 Visual Basic Programming OECS 195 Java Programming I or CTEC 152 JAVA Programming CTEC 220 Internship or OECS 221 Internship I CTEC 280 Scaling Networks or OECS 263 Network Fundamentals CTEC 285 Connecting Networks or OECS 264 Network Routing Protocols CTEC 240 Fundamentals of Database Management CTEC 245 Fundamentals of Cloud Based Data Systems CTEC 255 Special Topics or OECS 255 Special Topics CTEC 299 Independent Study or OECS 299 Independent Study			
CTEC 158 Visual Basic Programming OECS 195 Java Programming I or CTEC 152 JAVA Programming CTEC 220 Internship or OECS 221 Internship I CTEC 280 Scaling Networks or OECS 263 Network Fundamentals CTEC 285 Connecting Networks or OECS 264 Network Routing Protocols CTEC 240 Fundamentals of Database Management CTEC 245 Fundamentals of Cloud Based Data Systems CTEC 255 Special Topics or OECS 255 Special Topics CTEC 299 Independent Study or OECS 299 Independent Study		<u> </u>	
OECS 195 Java Programming I or CTEC 152 JAVA Programming CTEC 220 Internship or OECS 221 Internship I CTEC 280 Scaling Networks or OECS 263 Network Fundamentals CTEC 285 Connecting Networks or OECS 264 Network Routing Protocols CTEC 240 Fundamentals of Database Management CTEC 245 Fundamentals of Cloud Based Data Systems CTEC 255 Special Topics or OECS 255 Special Topics CTEC 299 Independent Study or OECS 299 Independent Study		•	
or CTEC 152 JAVA Programming CTEC 220 Internship or OECS 221 Internship I CTEC 280 Scaling Networks or OECS 263 Network Fundamentals CTEC 285 Connecting Networks or OECS 264 Network Routing Protocols CTEC 240 Fundamentals of Database Management CTEC 245 Fundamentals of Cloud Based Data Systems CTEC 255 Special Topics or OECS 255 Special Topics CTEC 299 Independent Study or OECS 299 Independent Study			
CTEC 220 Internship or OECS 221 Internship I CTEC 280 Scaling Networks or OECS 263 Network Fundamentals CTEC 285 Connecting Networks or OECS 264 Network Routing Protocols CTEC 240 Fundamentals of Database Management CTEC 245 Fundamentals of Cloud Based Data Systems CTEC 255 Special Topics or OECS 255 Special Topics CTEC 299 Independent Study or OECS 299 Independent Study			
or OECS 221 Internship I CTEC 280 Scaling Networks or OECS 263 Network Fundamentals CTEC 285 Connecting Networks or OECS 264 Network Routing Protocols CTEC 240 Fundamentals of Database Management CTEC 245 Fundamentals of Cloud Based Data Systems CTEC 255 Special Topics or OECS 255 Special Topics CTEC 299 Independent Study or OECS 299 Independent Study			
CTEC 280 Scaling Networks or OECS 263 Network Fundamentals CTEC 285 Connecting Networks or OECS 264 Network Routing Protocols CTEC 240 Fundamentals of Database Management CTEC 245 Fundamentals of Cloud Based Data Systems CTEC 255 Special Topics or OECS 255 Special Topics CTEC 299 Independent Study or OECS 299 Independent Study		·	
or OECS 263 Network Fundamentals CTEC 285 Connecting Networks or OECS 264 Network Routing Protocols CTEC 240 Fundamentals of Database Management CTEC 245 Fundamentals of Cloud Based Data Systems CTEC 255 Special Topics or OECS 255 Special Topics CTEC 299 Independent Study or OECS 299 Independent Study		·	
CTEC 285 Connecting Networks or OECS 264 Network Routing Protocols CTEC 240 Fundamentals of Database Management CTEC 245 Fundamentals of Cloud Based Data Systems CTEC 255 Special Topics or OECS 255 Special Topics CTEC 299 Independent Study or OECS 299 Independent Study			
or OECS 264 Network Routing Protocols CTEC 240 Fundamentals of Database Management CTEC 245 Fundamentals of Cloud Based Data Systems CTEC 255 Special Topics or OECS 255 Special Topics CTEC 299 Independent Study or OECS 299 Independent Study			
CTEC 240 Fundamentals of Database Management CTEC 245 Fundamentals of Cloud Based Data Systems CTEC 255 Special Topics or OECS 255 Special Topics CTEC 299 Independent Study or OECS 299 Independent Study			
CTEC 245 Fundamentals of Cloud Based Data Systems CTEC 255 Special Topics or OECS 255 Special Topics CTEC 299 Independent Study or OECS 299 Independent Study			
CTEC 255 Special Topics or OECS 255 Special Topics CTEC 299 Independent Study or OECS 299 Independent Study			
or OECS 255 Special Topics CTEC 299 Independent Study or OECS 299 Independent Study		·	
CTEC 299 Independent Study or OECS 299 Independent Study			
or OECS 299 Independent Study			
		•	
		Independent Study	

- Each course selected must be from a different area and students cannot take multiple courses in the same area.
- See the <u>General Education</u> (p. 52) section of the catalog for a full list of courses.
- Courses are identical to those offered at New Mexico State University Las Cruces (main) Campus.

(61-62 credits)

61-62

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Degree requires a minimum of **61 credit hours** and a cumulative GPA of 2.0.

NOTE: Students must earn a final grade of C- or better in all Major Requirements courses and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 61 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course	Title	Credits
Semester 1		
Area I: Communicatio	ns - English Composition Level 1	4
ENGL 1110G	Composition I	
Area IV: Social/Behav	ioral Sciences	3
CJUS 1110G	Introduction to Criminal Justice	
CTEC 120 or OECS 185	IT Infrastructure Support I or PC Maintenance and Repair I	3
CTEC 130 or OECS 204	Linux Workstation or Linux Operating System	3
CTEC 140 or OECS 220	Introduction to Database Design or Database Application and Design	3
	Credits	16
Semester 2		
General Education Ele Composition Level 2	ective - Area I: Communications - English	3
ENGL 2210G	Professional & Technical Communication	
CTEC 135 or OECS 207	Windows Workstation or Windows	3
CTEC 180 or OECS 261	Introduction to Networking or Introduction to Networks	4
CTEC 230 or OECS 234	Introduction to Linux Server Administration or Linux Server	3
Technical Requiremen	nt Elective - Choose one from the following:	3
CTEC 105 or OECS 105 or BCIS 1110	Introduction to Information Technology or Introduction to Information Technology or Introduction to Information Systems	
CTEC 110 or OECS 275	Software Applications for Technicians or PC Maintenance and Repair II	

CTEC 115 or OECS 155	TOPICS IN IT or Special Topics - Introductory Computer Technology	
CTEC 122 or OECS 275	IT Infrastructure Support II or PC Maintenance and Repair II	
CTEC 127 or CTEC 145 or OECS 235	Introduction to Internet of Things or Introduction to Database Management or Structured Query Language (SQL)	
CTEC 150 or OECS 145	Mobile Application Programming or Mobile Application Development	
CTEC 152 or OECS 195	JAVA Programming or Java Programming I	
CTEC 154 or OECS 192	C++ Programming or C++ Programming I	
CTEC 156 or CTEC 158	Python Programming or Visual Basic Programming	
CTEC 220 or OECS 221	Internship or Internship I	
CTEC 280 or OECS 263	Scaling Networks or Network Fundamentals	
CTEC 285 or OECS 264	Connecting Networks or Network Routing Protocols	
CTEC 240 or CTEC 245 or CTEC 255 or OECS 255	Fundamentals of Database Management or Fundamentals of Cloud Based Data Systems or Special Topics or Special Topics	
CTEC 299 or OECS 299	Independent Study or Independent Study	
Semester 3	Credits	16
Area II: Mathematics	Choose one from the following:	3-4
Area II: Mathematics - MATH 1220G	Choose one from the following: College Algebra	3-4
		3-4
MATH 1220G	College Algebra	3-4
MATH 1220G MATH 1250G	College Algebra Trigonometry & Pre-Calculus	3-4
MATH 1220G MATH 1250G MATH 1350G	College Algebra Trigonometry & Pre-Calculus Introduction to Statistics	3-4
MATH 1220G MATH 1250G MATH 1350G MATH 1430G	College Algebra Trigonometry & Pre-Calculus Introduction to Statistics Applications of Calculus I	3-4
MATH 1220G MATH 1250G MATH 1350G MATH 1430G MATH 1511G	College Algebra Trigonometry & Pre-Calculus Introduction to Statistics Applications of Calculus I Calculus and Analytic Geometry I	3-4
MATH 1220G MATH 1250G MATH 1350G MATH 1430G MATH 1511G MATH 1521G	College Algebra Trigonometry & Pre-Calculus Introduction to Statistics Applications of Calculus I Calculus and Analytic Geometry I Calculus and Analytic Geometry II	3-4
MATH 1220G MATH 1250G MATH 1350G MATH 1430G MATH 1511G MATH 1521G MATH 1521H CTEC 185	College Algebra Trigonometry & Pre-Calculus Introduction to Statistics Applications of Calculus I Calculus and Analytic Geometry I Calculus and Analytic Geometry II Calculus and Analytic Geometry II Honors Routing and Switching Essentials	
MATH 1220G MATH 1250G MATH 1350G MATH 1430G MATH 1511G MATH 1521G MATH 1521H CTEC 185 or OECS 262 CTEC 235	College Algebra Trigonometry & Pre-Calculus Introduction to Statistics Applications of Calculus I Calculus and Analytic Geometry I Calculus and Analytic Geometry II Calculus and Analytic Geometry II Honors Routing and Switching Essentials or Essentials of Routing and Switching Introduction to Windows Server Administration	4
MATH 1220G MATH 1250G MATH 1350G MATH 1350G MATH 1511G MATH 1521G MATH 1521H CTEC 185 or OECS 262 CTEC 235 or OECS 237 CTEC 290 or OECS 269	College Algebra Trigonometry & Pre-Calculus Introduction to Statistics Applications of Calculus I Calculus and Analytic Geometry I Calculus and Analytic Geometry II Calculus and Analytic Geometry II Honors Routing and Switching Essentials or Essentials of Routing and Switching Introduction to Windows Server Administration or Windows Server Network Security	4
MATH 1220G MATH 1250G MATH 1350G MATH 1350G MATH 1511G MATH 1521G MATH 1521H CTEC 185 or OECS 262 CTEC 235 or OECS 237 CTEC 290 or OECS 269 Technical Requirement	College Algebra Trigonometry & Pre-Calculus Introduction to Statistics Applications of Calculus I Calculus and Analytic Geometry I Calculus and Analytic Geometry II Calculus and Analytic Geometry II Honors Routing and Switching Essentials or Essentials of Routing and Switching Introduction to Windows Server Administration or Windows Server Network Security or Network Security	4 3
MATH 1220G MATH 1250G MATH 1350G MATH 1350G MATH 1511G MATH 1521G MATH 1521H CTEC 185 or OECS 262 CTEC 235 or OECS 237 CTEC 290 or OECS 269 Technical Requirement	College Algebra Trigonometry & Pre-Calculus Introduction to Statistics Applications of Calculus I Calculus and Analytic Geometry I Calculus and Analytic Geometry II Calculus and Analytic Geometry II Honors Routing and Switching Essentials or Essentials of Routing and Switching Introduction to Windows Server Administration or Windows Server Network Security of Network Security at Elective - A list of approved electives can be	4 3 3 3
MATH 1220G MATH 1250G MATH 1350G MATH 1350G MATH 1511G MATH 1521G MATH 1521H CTEC 185 or OECS 262 CTEC 235 or OECS 237 CTEC 290 or OECS 269 Technical Requirement found in Semester 2.	College Algebra Trigonometry & Pre-Calculus Introduction to Statistics Applications of Calculus I Calculus and Analytic Geometry I Calculus and Analytic Geometry II Calculus and Analytic Geometry II Honors Routing and Switching Essentials or Essentials of Routing and Switching Introduction to Windows Server Administration or Windows Server Network Security or Network Security at Elective - A list of approved electives can be Credits	4 3 3 3
MATH 1220G MATH 1250G MATH 1350G MATH 1350G MATH 1511G MATH 1521G MATH 1521H CTEC 185 or OECS 262 CTEC 235 or OECS 237 CTEC 290 or OECS 269 Technical Requirement found in Semester 4	College Algebra Trigonometry & Pre-Calculus Introduction to Statistics Applications of Calculus I Calculus and Analytic Geometry I Calculus and Analytic Geometry II Calculus and Analytic Geometry II Honors Routing and Switching Essentials or Essentials of Routing and Switching Introduction to Windows Server Administration or Windows Server Network Security or Network Security at Elective - A list of approved electives can be Credits	4 3 3 3
MATH 1220G MATH 1250G MATH 1350G MATH 1350G MATH 1511G MATH 1521G MATH 1521H CTEC 185 or OECS 262 CTEC 235 or OECS 237 CTEC 290 or OECS 269 Technical Requirement found in Semester 2.	College Algebra Trigonometry & Pre-Calculus Introduction to Statistics Applications of Calculus I Calculus and Analytic Geometry I Calculus and Analytic Geometry II Calculus and Analytic Geometry II Honors Routing and Switching Essentials or Essentials of Routing and Switching Introduction to Windows Server Administration or Windows Server Network Security or Network Security at Elective - A list of approved electives can be Credits	4 3 3 16-17
MATH 1220G MATH 1250G MATH 1350G MATH 1350G MATH 1430G MATH 1511G MATH 1521H CTEC 185 or OECS 262 CTEC 235 or OECS 237 CTEC 290 or OECS 269 Technical Requirement found in Semester 2. Semester 4 Area III: Laboratory Sco	College Algebra Trigonometry & Pre-Calculus Introduction to Statistics Applications of Calculus I Calculus and Analytic Geometry I Calculus and Analytic Geometry II Calculus and Analytic Geometry II Honors Routing and Switching Essentials or Essentials of Routing and Switching Introduction to Windows Server Administration or Windows Server Network Security or Network Security at Elective - A list of approved electives can be Credits Siences Introduction to Computer Science	4 3 3 3 16-17 4
MATH 1220G MATH 1250G MATH 1350G MATH 1350G MATH 1430G MATH 1511G MATH 1521H CTEC 185 or OECS 262 CTEC 235 or OECS 237 CTEC 290 or OECS 269 Technical Requirement found in Semester 2. Semester 4 Area III: Laboratory Scores 275 CSEC 275	College Algebra Trigonometry & Pre-Calculus Introduction to Statistics Applications of Calculus I Calculus and Analytic Geometry I Calculus and Analytic Geometry II Calculus and Analytic Geometry II Honors Routing and Switching Essentials or Essentials of Routing and Switching Introduction to Windows Server Administration or Windows Server Network Security or Network Security at Elective - A list of approved electives can be Credits Siences Introduction to Computer Science Introductory to Cryptography	4 3 3 3 16-17 4
MATH 1220G MATH 1250G MATH 1350G MATH 1350G MATH 1430G MATH 1511G MATH 1521H CTEC 185 or OECS 262 CTEC 235 or OECS 237 CTEC 290 or OECS 269 Technical Requirement found in Semester 2. Semester 4 Area III: Laboratory Sc C S 171G CSEC 275 CSEC 280	College Algebra Trigonometry & Pre-Calculus Introduction to Statistics Applications of Calculus I Calculus and Analytic Geometry I Calculus and Analytic Geometry II Calculus and Analytic Geometry III Honors Routing and Switching Essentials or Essentials of Routing and Switching Introduction to Windows Server Administration or Windows Server Network Security or Network Security at Elective - A list of approved electives can be Credits Electives Introduction to Computer Science Introductory to Cryptography Introduction to Cyber Defense	4 3 3 16-17 4 3 3

Cisco Networking - Certificate of Completion

Doña Ana Community College 2020-21 Catalog

(16 credits)

NOTE: Students must complete all University certificate requirements to total at least 16 credits.and must achieve a cumulative grade-point average of at least 2.0. Developmental coursework will not count towards the degree requirements and/or elective credits. If a student has no basic typing skills, OATS 101 Keyboarding Basics is a prerequisite for all CTEC, CSEC, and OECS courses. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Prefix	Title	Credits
Course Requirement	s	
CTEC 180	Introduction to Networking	4
or OECS 261	Introduction to Networks	
CTEC 185	Routing and Switching Essentials	4
or OECS 262	Essentials of Routing and Switching	
CTEC 280	Scaling Networks	4
or OECS 263	Network Fundamentals	
CTEC 285	Connecting Networks	4
or OECS 264	Network Routing Protocols	
Total Credits		16

(16 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must complete all University certificate requirements to total at least 16 credits.and must achieve a cumulative grade-point average of at least 2.0. Developmental coursework will not count towards the degree requirements and/or elective credits. If a student has no basic typing skills, OATS 101 Keyboarding Basics is a prerequisite for all CTEC, CSEC, and OECS courses. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Course	Title	Credits
Semester 1		
CTEC 180 or OECS 261	Introduction to Networking or Introduction to Networks	4
CTEC 185 or OECS 262	Routing and Switching Essentials or Essentials of Routing and Switching	4
	Credits	8
Semester 2		
CTEC 280 or OECS 263	Scaling Networks or Network Fundamentals	4
CTEC 285 or OECS 264	Connecting Networks or Network Routing Protocols	4
	Credits	8
	Total Credits	16

Computer Information Systems - Certificate of Completion

Doña Ana Community College 2020-21 Catalog

Title

(27-31 credits)

Drofiv

NOTE: Students must complete all University certificate requirements to total at least 27 credits.and must achieve a cumulative grade-point average of at least 2.0. Developmental coursework will not count towards the degree requirements and/or elective credits. If a student has no basic typing skills, OATS 101 Keyboarding Basics is a prerequisite for all CTEC, CSEC, and OECS courses. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Prefix	Title	Credits
Technical Requirement	nts	
CTEC 130	Linux Workstation	3
or OECS 204	Linux Operating System	
CTEC 140	Introduction to Database Design	3
or OECS 220	Database Application and Design	
CTEC 145	Introduction to Database Management	3
or OECS 235	Structured Query Language (SQL)	
CTEC 150	Mobile Application Programming	3
or OECS 145	Mobile Application Development	
CTEC 152	JAVA Programming	3-4
or OECS 195	Java Programming I	
or CTEC 156	Python Programming	
or C S 172	Computer Science I	
CTEC 158	Visual Basic Programming	3-4
CTEC 180	Introduction to Networking	3
or OECS 261	Introduction to Networks	
Electives - Choose two different from Technic	o courses from the following. Electives must be cal Requirements.	6-8
C S 111	Computer Science Principles	
C S 172	Computer Science I	
CTEC 130	Linux Workstation	
or OECS 204	Linux Operating System	
CTEC 135	Windows Workstation	
or OECS 207	Windows	
CTEC 150	Mobile Application Programming	
or OECS 145	Mobile Application Development	
CTEC 156	Python Programming	

(27-31 credits)

Total Credits

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must complete all University certificate requirements to total at least 27 credits.and must achieve a cumulative grade-point average of at least 2.0. Developmental coursework will not count towards the degree requirements and/or elective credits. If a student has

no basic typing skills, OATS 101 Keyboarding Basics is a prerequisite for all CTEC, CSEC, and OECS courses. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Course First Year Fall	Title	Credits
CTEC 130 or OECS 204	Linux Workstation or Linux Operating System	3
CTEC 140 or OECS 220	Introduction to Database Design or Database Application and Design	3
CTEC 152 or OECS 195 or CTEC 156 or C S 172	JAVA Programming or Java Programming I or Python Programming or Computer Science I	3-4
or OECS 261	Introduction to Networking or Introduction to Networks	3
Elective - Choose one f different from Technica	rom the following. Elective course must be al Requirements.	3-4
C S 111	Computer Science Principles	
C S 172	Computer Science I	
CTEC 120 or OECS 185	IT Infrastructure Support I or PC Maintenance and Repair I	
CTEC 130 or OECS 204	Linux Workstation or Linux Operating System	
CTEC 135 or OECS 207	Windows Workstation or Windows	
CTEC 150 or OECS 145	Mobile Application Programming or Mobile Application Development	
CTEC 156	Python Programming	
CTEC 158	Visual Basic Programming	
	Credits	15-17
Spring		
CTEC 145 or OECS 235	Introduction to Database Management or Structured Query Language (SQL)	3
CTEC 150 or OECS 145	Mobile Application Programming or Mobile Application Development	3
CTEC 180	Introduction to Networking	3-4
	rom the list in First Year-Fall. Elective course Technical Requirements.	3-4
	Credits	12-14
	Total Credits	27-31

Computer and Information Technology - Certificate of Completion

Doña Ana Community College 2020-21 Catalog

(16 credits)

0---

NOTE: Students must complete all University certificate requirements to total at least 16 credits.and must achieve a cumulative grade-point average of at least 2.0. Developmental coursework will not count towards the degree requirements and/or elective credits. If a student has no basic typing skills, OATS 101 Keyboarding Basics is a prerequisite for all CTEC, CSEC, and OECS courses. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Prefix	Title	Credits
Technical/Major Requ	irements	
Choose one from the	following:	3
CTEC 130	Linux Workstation	
or OECS 204	Linux Operating System	
CTEC 135	Windows Workstation	
or OECS 207	Windows	
Choose one from the	following:	3
CTEC 120	IT Infrastructure Support I	
or OECS 185	PC Maintenance and Repair I	
or OECS 227	Computer Applications for Technicians	
CTEC 122	IT Infrastructure Support II	
or OECS 275	PC Maintenance and Repair II	
ET 283	Hardware PC Maintenance ¹	
Choose from the follo	wing:	10
IF a 3 credit course is needed from Related	selected from this section, then 7 credits are Requirements.	
IF a 4 credit course is needed from Related	selected from this section, then 6 credits are Requirements.	
CTEC 180	Introduction to Networking	
or OECS 261	Introduction to Networks	
CTEC 230	Introduction to Linux Server Administration	
or OECS 234	Linux Server	
CTEC 235	Introduction to Windows Server Administration	
or OECS 237	Windows Server	
ET 153	Introduction to Computer Networks	

Related Requirements

ET 155

Choose 6-7 credits from the following:

Any course with the following prefix: BCIS, C S, CSEC, CTEC, DRFT, E E, E T, FDMA, MATH, or OECS

Network Operating Systems I

Total Credits 16

(16-18 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must complete all University certificate requirements to total at least 16 credits.and must achieve a cumulative grade-point average of at least 2.0. Developmental coursework will not count towards the degree requirements and/or elective credits. If a student has no basic typing skills, OATS 101 Keyboarding Basics is a prerequisite for all CTEC, CSEC, and OECS courses. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Course	Title	Credits
Semester 1		
	ment (3-4 credits) - Any course with the following CSEC, CTEC, DRFT, E E, E T, FDMA, MATH, or OEC	•
Choose one from	the following:	3

		Total Credits	16-18
		Credits	7-8
	ET 155	Network Operating Systems I	
	ET 153	Introduction to Computer Networks	
	CTEC 235 or OECS 237	Introduction to Windows Server Administration or Windows Server	
	CTEC 230 or OECS 234	Introduction to Linux Server Administration or Linux Server	
	CTEC 180 or OECS 261	Introduction to Networking or Introduction to Networks	
Ch	oose one from the	following (at least 4 credits):	4
	•	(3-4 credits) - Any course with the following C, CTEC, DRFT, E E, E T, FDMA, MATH, or OECS	3-4
Sei	mester 2	G.Gano	3.0
	or OECS 207	or Windows Credits	9-10
	CTEC 135	Windows Workstation	
	CTEC 130 or OECS 204	Linux Workstation or Linux Operating System	
Ch	oose one from the	following:	3
	ET 283	Hardware PC Maintenance	
	CTEC 122 or OECS 275	IT Infrastructure Support II or PC Maintenance and Repair II	
	CTEC 120 or OECS 185 or OECS 227	IT Infrastructure Support I or PC Maintenance and Repair I or Computer Applications for Technicians	

Cybersecurity - Certificate of Completion

Doña Ana Community College 2020-21 Catalog

(27 credits)

NOTE: Students must complete all University certificate requirements to total at least 27 credits and must achieve a cumulative grade-point average of at least 2.0. Developmental coursework will not count towards the degree requirements and/or elective credits. If a student has no basic typing skills, OATS 101 Keyboarding Basics is a prerequisite for all CTEC, CSEC, and OECS courses. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Prefix	Title	Credits
Course Requirements		
MATH 1350G	Introduction to Statistics	3
CSEC 275	Introductory to Cryptography	3
CSEC 280	Introduction to Cyber Defense	3
CSEC 285	Introduction to Managing Information Security	3
CTEC 130	Linux Workstation	3
or OECS 204	Linux Operating System	
CTEC 135	Windows Workstation	3
or OECS 207	Windows	
CTEC 230	Introduction to Linux Server Administration	3
or OECS 234	Linux Server	
CTEC 235	Introduction to Windows Server Administration	3
or OECS 237	Windows Server	
CTEC 290	Network Security	3

Some courses not currently taught at DACC. Please refer to current Class Schedule for a listing of courses taught at DACC.

or OECS 269	Network Security	
Total Credits		27

(27-28 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must complete all University certificate requirements to total at least 27 credits and must achieve a cumulative grade-point average of at least 2.0. Developmental coursework will not count towards the degree requirements and/or elective credits. If a student has no basic typing skills, OATS 101 Keyboarding Basics is a prerequisite for all CTEC, CSEC, and OECS courses. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Course	Title	Credits
Semester 1		
Area II: Mathematics		3
MATH 1350G	Introduction to Statistics	
CSEC 275	Introductory to Cryptography	3
CTEC 130 or OECS 204	Linux Workstation or Linux Operating System	3
CTEC 135 or OECS 207	Windows Workstation or Windows	3
CTEC 290 or OECS 269	Network Security or Network Security	3-4
	Credits	15-16
Semester 2		
CSEC 280	Introduction to Cyber Defense	3
CSEC 285	Introduction to Managing Information Security	3
CTEC 235 or OECS 237	Introduction to Windows Server Administration or Windows Server	3
CTEC 230 or OECS 234	Introduction to Linux Server Administration or Linux Server	3
	Credits	12
	Total Credits	27-28

Oracle Programming - Certificate of Completion

Doña Ana Community College 2020-21 Catalog

(18 credits)

NOTE: Students must complete all University certificate requirements to total at least 18 credits and must achieve a cumulative grade-point average of at least 2.0. Developmental coursework will not count towards the degree requirements and/or elective credits. If a student has no basic typing skills, OATS 101 Keyboarding Basics is a prerequisite for all CTEC, CSEC, and OECS courses. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Title	Credits
ements	
Introduction to Database Design	3
Database Application and Design	
Introduction to Database Management	3
Structured Query Language (SQL)	
Fundamentals of Database Management	3
Fundamentals of Cloud Based Data Systems	3
from courses with the following prefixes: BCIS, C S,	6
101, 01 0200.	18
Introduction to Database Design Database Application and Design Introduction to Database Management Structured Query Language (SQL) Fundamentals of Database Management Fundamentals of Cloud Based Data Systems	

(18 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must complete all University certificate requirements to total at least 18 credits and must achieve a cumulative grade-point average of at least 2.0. Developmental coursework will not count towards the degree requirements and/or elective credits. If a student has no basic typing skills, OATS 101 Keyboarding Basics is a prerequisite for all CTEC, CSEC, and OECS courses. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Course	Title	Credits
Semester 1		
CTEC 140 or OECS 220	Introduction to Database Design or Database Application and Design	3
Choose one course v T, ICT, or OECS.	with the following prefix: BCIS, C S, CSEC, CTEC, E	3
	Credits	6
Semester 2		
CTEC 145 or OECS 235	Introduction to Database Management or Structured Query Language (SQL)	3
Choose one course of T, ICT, or OECS.	with the following prefix: BCIS, C S, CSEC, CTEC, E	3
	Credits	6
Semester 3		
CTEC 240	Fundamentals of Database Management	3
	Credits	3
Semester 4		
CTEC 245	Fundamentals of Cloud Based Data Systems	3
	Credits	3
	Total Credits	18

Programming - Certificate of Completion

Doña Ana Community College 2020-21 Catalog

(18-20 credits)

NOTE: Students must complete all University certificate requirements to total at least 18 credits and must achieve a cumulative grade-point average of at least 2.0. Developmental coursework will not count towards the degree requirements and/or elective credits. If a student has no basic typing skills, OATS 101 Keyboarding Basics is a prerequisite for all CTEC, CSEC, and OECS courses. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Prefix	Title	Credits
Technical Requiremen	nts	
CTEC 140	Introduction to Database Design	3
or OECS 220	Database Application and Design	
CTEC 145	Introduction to Database Management	3
or OECS 235	Structured Query Language (SQL)	
CTEC 152	JAVA Programming	3
or OECS 195	Java Programming I	
or CTEC 156	Python Programming	
or C S 172	Computer Science I	
CTEC 158	Visual Basic Programming	3
Electives - Choose two	o from the following:	6-8
C S 111	Computer Science Principles	
C S 172	Computer Science I	
CTEC 130	Linux Workstation	
or OECS 204	Linux Operating System	
CTEC 135	Windows Workstation	
or OECS 207	Windows	
CTEC 150	Mobile Application Programming	
or OECS 145	Mobile Application Development	
CTEC 156	Python Programming	
Total Credits		18-20

(18-20 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must complete all University certificate requirements to total at least 18 credits and must achieve a cumulative grade-point average of at least 2.0. Developmental coursework will not count towards the degree requirements and/or elective credits. If a student has no basic typing skills, OATS 101 Keyboarding Basics is a prerequisite for all CTEC, CSEC, and OECS courses. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Course	Title	Credits
Semester 1		
CTEC 140 or OECS 220	Introduction to Database Design or Database Application and Design	3

or OECS 195 or CTEC 156 or C S 172	JAVA Programming or Java Programming I or Python Programming or Computer Science I	3
Choose one from the f	ollowing:	3-4
C S 111	Computer Science Principles	
C S 172	Computer Science I	
CTEC 135 or OECS 207	Windows Workstation or Windows	
CTEC 150 or OECS 145	Mobile Application Programming or Mobile Application Development	
CTEC 156	Python Programming	
	Credits	9-10
Semester 2		
CTEC 145 or OECS 235	Introduction to Database Management or Structured Query Language (SQL)	3
CTEC 158	Visual Basic Programming	3
Choose one from the f	ollowing:	3-4
C S 111	Computer Science Principles	
C S 172	Computer Science I	
CTEC 130 or OECS 204	Linux Workstation or Linux Operating System	
CTEC 135 or OECS 207	Windows Workstation or Windows	
CTEC 150 or OECS 145	Mobile Application Programming or Mobile Application Development	
CTEC 156	Python Programming	
	Credits	9-10
	Total Credits	18-20

System Administration - Certificate of Completion

Doña Ana Community College 2020-21 Catalog

(19 credits)

NOTE: Students must complete all University certificate requirements to total at least 19 credits.and must achieve a cumulative grade-point average of at least 2.0. Developmental coursework will not count towards the degree requirements and/or elective credits. If a student has no basic typing skills, OATS 101 Keyboarding Basics is a prerequisite for all CTEC, CSEC, and OECS courses. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Prefix	Title	Credits
Course Requirements		
CTEC 130	Linux Workstation	3
or OECS 204	Linux Operating System	
CTEC 135	Windows Workstation	3
or OECS 207	Windows	
CTEC 230	Introduction to Linux Server Administration	3
or OECS 234	Linux Server	
CTEC 235	Introduction to Windows Server Administration	3
or OECS 237	Windows Server	
CTEC 180	Introduction to Networking	4
or OECS 261	Introduction to Networks	
CTEC 290	Network Security	3

or OECS 269 Network Security

Total Credits 19

(19 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must complete all University certificate requirements to total at least 19 credits.and must achieve a cumulative grade-point average of at least 2.0. Developmental coursework will not count towards the degree requirements and/or elective credits. If a student has no basic typing skills, OATS 101 Keyboarding Basics is a prerequisite for all CTEC, CSEC, and OECS courses. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Course	Title	Credits
Semester 1		
CTEC 130	Linux Workstation	3
CTEC 135 or OECS 207	Windows Workstation or Windows	3
CTEC 180 or OECS 261	Introduction to Networking or Introduction to Networks	4
	Credits	10
Semester 2		
CTEC 230 or OECS 234	Introduction to Linux Server Administration or Linux Server	3
CTEC 235 or OECS 237	Introduction to Windows Server Administration or Windows Server	3
CTEC 290 or OECS 269	Network Security or Network Security	3
	Credits	9
	Total Credits	19

Creative Media Technology

Associate of Applied Science Degrees

- · Digital Film
- · Digital Graphics Technology
- · Game Development

Certificates of Completion

- · Creative Media
- · Commercial Photography (new!)
- · Digital Audio
- · Digital Graphics
- · Digital Video
- · Film Crew Training
- · Game Design
- · Graphics and Animation
- Web Design

Because we live in the age of information, there is an ever-growing need for trained specialists with a visual sophistication to design printed

materials and web sites, produce videos and films, create animated scenes and characters, and participate in game design. Effective visual communication and interaction is essential in today's world.

The program in Creative Media Technology has been developed in response to all of these needs. It provides a strong but versatile foundation by merging design and digital media into an exciting course of study. The program brings together various dynamic technologies, including print media, web design, multimedia, digital photography, animation, and digital film. Because the field is extremely varied, the CMT program offers a number of pathways:

- The Digital Film degree provides a foundation for students who are looking for professional opportunities in the areas of filmmaking, computer animation, digital video production, game design, and multimedia.
- The Digital Graphics degree emphasizes graphic design, print media, and web design, but also includes fundamentals in animation, multimedia, and digital film.
- The Game Development degree provides a foundation in game design, art, and animation technologies, including 3D modeling and sculpting, game engine technology and scripting, and asset development and management.
- The program also offers certificates in specialized areas such as creative media, commercial photography, digital audio, digital graphics, digital video, web design, graphics and animation, game design, and film-crew training.

The future is bright for graduates of the CMT program, whether they choose to enter the job market immediately or pursue a bachelor's degree. Several transfer tracks open the way for graduates of the Digital Film, Digital Graphics, and Game Development associate degree programs to continue their education at New Mexico State University or any institution of higher learning.

Employment will continue to increase for digital media specialists in advertising agencies, animation and film studios, web design companies, and other organizations throughout the business sector. Upon completion of one of the associate degrees will also have designed and created a self-promotional package and professional, electronic portfolio or demo reel.

High school students who are interested in a career in creative media are encouraged to take courses in art, photography, English, and mathematics. Courses as well as careers in media will require a person to be able to work at computers, communicate verbally and in writing, and participate in an online environment.

Digital Film - Associate of Applied Science (p. 169)

Digital Graphics Technology- Associate of Applied Science (p. 170)

Game Development - Associate of Applied Science (p. 172)

Commercial Photography - Certificate of Completion (p. 173)

Creative Media - Certificate of Achievement (p. 173)

Digital Audio - Certificate of Completion (p. 174)

Digital Graphics - Certificate of Completion (p. 174)

<u>Digital Video - Certificate of Completion</u> (p. 175)

Film Crew Training - Certificate of Completion (p. 176)

Game Design - Certificate of Completion (p. 176)

Graphics and Animation - Certificate of Completion (p. 177)

Web Design - Certificate of Completion (p. 178)

FDMA 1110. Film History

3 Credits (3)

This course surveys the history of cinema -investigating the process by which the original "cinema of attractions" evolved into a globally dominant form of visual storytelling. We will explore the development of cinema both as an art form and as an industry, and consider the technological, economic, cultural factors, and key international movements that shape it.

FDMA 1120. Desktop Publishing

3 Credits (2+2P)

This course is designed to teach introductory skills for designing and creating publications and presentations with layout software. The course will focus on graphics and typographic design, fonts, and other skills for print and web publishing.

FDMA 1210. Digital Video Production I

3 Credits (2+4P)

An introduction to digital video production. Students learn camera operation, lights and audio equipment. Hands-on production is completed in the studio and on location.

FDMA 1220. Introduction to Digital Video Editing 3 Credits (3)

In this course, students learn the basics of the post-production process for non-linear video editing. Students work with multiple video formats and create short movies for multiple distribution platforms. Skills include media management and professional terminology.

Prerequisite(s)/Corequisite(s): FDMA 2382.

FDMA 1260. Introduction to Digital Media

1-3 Credits (1-3)

Explores concepts of how text, graphics, sound, images and video come together in a digital media program and researching new trends and current issues related to media applications and design. Students will be involved in teamwork, communication and workplace interaction simulation. May be repeated up to 12 credits. Restricted to Community Colleges campuses only.

FDMA 1360. Web Design I

3 Credits (2+2P)

This course provides an introduction to web development techniques, theory, and design. Students will learn HTML, CSS application, and strategies for effective site navigation and design, along with industry standard web editing software to develop various websites. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): ARTS 1520 OR FDMA 1515.

FDMA 1410. Audio Production I

3 Credits (2+2P)

Students will learn about and apply essential tools and techniques in analog and digital audio production. Topics include acoustic science, microphones, recording and mixing techniques, analog and digital audio hardware and software, including, multi-track, computer-based recording and editing systems. Restricted to: Community Colleges only.

Prerequisite(s): FDMA 1210 and FDMA 2410.

FDMA 1415. Principles of Sound

3 Credits (2+2P)

The creation of a professional quality original media soundtrack is possible for relatively low production/post production cost. This class is designed to give the student and overview of creating sound for a variety of digital media. Topics include acoustic principles, sound design, audio hardware, recording techniques; and editing, processing, and multi-track mixing, using software applications. Restricted to: Community Colleges only.

Prerequisite(s)/Corequisite(s): FDMA 1220.

FDMA 1510. Introduction to 3D Animation 3 Credits (3)

This course provides an overview of 3D animation production processes. Students will be introduced to basic story development and the creation of computer-generated assets and cinematic sequences. The course will survey specialty areas of digital animation and various software and techniques applied in entertainment and information media. Students will review and critique other's animation, as well as plan and produce original animation for review by classmates and as part of a CGI demo reel.

Prerequisite(s): FDMA 2382 or FDMA 2381 or consent of instructor.

FDMA 1515. Introduction to Digital Image Editing - Photoshop 3 Credits (2+2P)

In this course, students will learn how to use the tools in Adobe Photoshop to create new images and edit existing images. Tools used will include selections, layers, and adjustments, among other pixel editing tools. Basic composition and output will be emphasized in all projects. May be repeated for a maximum of 6 credits.

FDMA 1531. Evolution of Electronic Games 3 Credits (2+2P)

Focus on the evolution of video games and how they have shaped mainstream entertainment. May be repeated up to 6 credits.

FDMA 1535. Introduction to Illustrator 3 Credits (2+2P)

Students receive instruction on vector graphics creation using vector illustration software. The students will create professional-quality artwork for print publishing and multimedia graphics. Instruction includes creating and manipulating basic shapes, drawing with the pen tool, using various brushes, working with type and preparing graphics for web, print, and digital publication. May be repeated for a maximum of 6 credits.

FDMA 1536. Advanced Computer Illustration 3 Credits (2+2P)

Advanced techniques in 2D vector drawing and fundamentals of 3D illustration for use in print, web, and multimedia applications. May be repeated up to 6 credits. Restricted to Community Colleges campuses only

Prerequisite(s): FDMA 1535.

FDMA 1545. Introduction to Photography & Digital Imaging 3 Credits (2+2P)

This course is a study of the principles and techniques of photography using digital equipment, and discusses how digital cameras, imaging editing, and technology have changed the world of photography. Students will learn about studies in resolution, lighting, software, editing, printing, and web applications. They will gain fundamental knowledge in the rapidly expanding technology of photography and imaging, and be able to incorporate the knowledge into all areas of digital graphics.

FDMA 1555. Introduction to the Creative Media Industry 3 Credits (3)

This class is an introductory course for students who are beginning their understanding of Media and how it affects them and our society. It offers a broad-stroked view of the entire industry including Marketing, Production, History, Jobs, Design, Architecture, New Media Literacy, and industry standards. Students will listen to experts in the field, get involved in open discussions about the industry and use new information to complete hands-on individual & group assignments.

FDMA 1630. Principles of Design

3 Credits (2+2P)

This course will explore how we see and use visuals to communicate information. Students will develop critical thinking skills in applying concepts of basic design principles. Students will apply the concepts with hands-on and analysis assignments. These concepts will then be applied to design for advertising, print, digital media, and web design. The business of design will also be covered with emphasis on client relations and networking Restricted to: Community Colleges only. Prerequisite(s): FDMA 1535

FDMA 1710. 2D Animation

3 Credits (2+2P)

Concepts and techniques in storyboarding and creating interactive 2D animations for web, multimedia and video.

Prerequisite(s): FDMA 1535.

FDMA 1715. 2-D COMPOSING & FX

3 Credits (3)

The purpose of this course is to familiarize students with the powerful compositing and special effects tools of Adobe After Effects for 2D, traditional animation. Students will learn how to assemble an existing unrendered animation into a final piece with advanced 3D lighting, spacing, and digital effects so that it can achieve a dynamic, professionally rendered look. Restricted to Las Cruces campus only.

FDMA 1720. 3-D Character Design

3 Credits (2+4P)

Focus on designing a character and then taking that design and building it in 3D using intermediate modeling techniques. May be repeated for a maximum of 6 credits.

Prerequisite(s): FDMA 1510 or FDMA 2530.

FDMA 1996. Selected Topics

1-4 Credits (1-4)

Specific titles to be announced in the Schedule of Classes. May be repeated for a maximum of 18 credits. Restricted to Community Colleges campuses only.

FDMA 2111. Environmental Scene Design 3 Credits (2+4P)

Modeling design techniques used to create environments and scenes for use in animated films and games. Investigation of both natural and architectural environments to be recreated in the virtual world.

Prerequisite(s): FDMA 1510 or FDMA 2530.

FDMA 2120. Film Crew I/ Introduction to Film and Media Workflow 9 Credits (9)

An introduction to the film industry. This class teaches film production processes, film crew hierarchy, film production set-safety and etiquette and provides hands-on training in industry standard film production equipment. Students complete the semester by participating as a below-the-line crew member on a short film. Restricted to: Community Colleges only.

FDMA 2125. Film Crew II

9 Credits (9)

The second course designed to train students to become working members of film crews. It will be taught by working film professionals. Content will be lecture and hands-on. Students complete the semester by working as part of an actual film crew as below-the-line and above-the-line crew members. Restricted to: Community Colleges only.

Prerequisite(s): FDMA 2120.

FDMA 2144. Pre-production Management

3 Credits (2+2P)

Pre-production planning paperwork breakdowns, budgeting, and scheduling; taking a project from start to finish from a producers standpoint.

Prerequisite(s): FDMA 1210.

FDMA 2150. Desktop Publishing II

3 Credits (2+2P)

This class will enhance and build upon student layout/design skills developed in the Introduction to Desktop Publishing course, incorporating intermediate to advanced concepts in typography and layout design. Upon completion of this course, students will be able to use page layout software to prepare a variety of documents for presentation and critique, including newsletters, instructional flyers, and other complex design/typographic pieces May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): FDMA 1120.

FDMA 2210. Digital Video Production II

3 Credits (2+2P)

Advanced techniques of the tools and application of professional film making. May be repeated for a maximum of 6 credits.

Prerequisite: FDMA 1210.

FDMA 2235. Music Production Master

3 Credits (2+2P)

Advanced digital audio post production and recording techniques using current entertainment industry-standard software and hardware.

Restricted to: Community Colleges only. **Prerequisite(s):** FDMA 1415 and FDMA 2410.

FDMA 2241. Advanced Camera Techniques

3 Credits (2+2P)

Professional camera techniques and training for electronic news gathering and studio filmmaking. Utilizes high-end handheld shooting techniques, cranes, dollies, and steadicam training. May be repeated for a maximum of 6 credits.

Prerequisite(s): FDMA 1210.

FDMA 2285. Digital Video Production and Editing II 3 Credits (2+2P)

Advanced features of digital video, audio/music, and titling production software. Included are color correction, vector scopes, motion effects, and advanced editing techniques used by filmmakers. Restricted to Community Colleges campuses only. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): FDMA 1220.

FDMA 2287. Digital Design Studio

1-3 Credits

A design studio environment in which students obtain real-world experience while providing service to college and non-profit associations with faculty supervision using a variety of media. Can be used with permission to fulfill cooperative requirement. May be repeated for a maximum of 6 credits.

Prerequisite(s): FDMA 1630 or ARTS 1712.

FDMA 2310. History of Cinema I

3 Credits (3)

This course surveys the history of cinema - investigating the process by which the original "cinema of attractions" evolved into a globally dominant form of visual storytelling. We will explore the development of cinema both as an art form and as an industry, and consider the technological, economic, cultural factors, as well as many key international movements that helped shape it. Restricted to: G-CMI, DFM, ANVE majors.

FDMA 2311. History of Animation

3 Credits (3)

Explores the history of Animation as an art form and industry through readings, screenings, lecture and periodic guest speakers. Restricted to: G-CMI, ANVE, DFM majors. Restricted to Las Cruces campus only.

FDMA 2312. History of Media Design 3 Credits (3)

An introduction to the principles of design history and theory within a chronological framework of historical and emerging media.

FDMA 2325. Advanced Photoshop

3 Credits (2+2P)

This course expands on the Photoshop skill set to develop proficiency with selections, masking, channels, filters, color correction, painting tools, vector integration, video, special effects, and compositing techniques. The focus is on the core image-editing tools of Photoshop that can be universally applied to photography, print, film or the web. The material is covered in production-oriented projects and students develop work suitable for portfolios. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): FDMA 1515.

FDMA 2326. Digital Photography and Imaging II 3 Credits (2+2P)

Provide understanding and skills needed for advanced digital capture, editing, optimizing and manipulating photographic images for print, web and multimedia applications. The course will prepare students to make more advanced technical and more refined aesthetic decisions relative to specific photographic applications. Restricted to: Alamogordo campus, Carlsbad campus, Dona Ana campus.

Prerequisite(s): FDMA 1545. FDMA 2360. Web Design II

3 Credits (2+2P)

In this course, students will refine their skills in coding and web graphic design as well as be introduced to methods in constructing sites that adhere to the standards of responsive web design. Students will expand their knowledge of HTML and CSS using a code editor, and they will both analyze existing websites and also construct an interactive website. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): FDMA 1360.

FDMA 2365. Web Design for Small Business 3 Credits (2+2P)

Technology and techniques for designing and building a web presence for small business. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): FDMA 1360.

FDMA 2370. Advanced Web Techniques 3 Credits (2+2P)

Creating and managing complex web sites using advanced techniques and tools. May be repeated for a maximum of 6 credits. Restricted to: Community Colleges only.

Prerequisite(s): FDMA 1515 and FDMA 2360.

FDMA 2381. Storyboarding

3 Credits (3)

Examines effective writing principles to create storyboards that communicate the overall picture of a project, timing, scene complexity, emotion and resource requirements. Further, the purpose of this course is to introduce students to the principles of visual storytelling—in film—through the use of the storyboard. In other words, to show how storyboards are critical 'architectural component' of the filmmaking process, used as a blueprint (or guide) to communicate the complex elemnts of a film story. Crosslisted with: ENGL 2381. Restricted to: DFM,ANVE, G-CMI majors. Restricted to Las Cruces campus only.

FDMA 2382. Principles of Story Across the Media 3 Credits (3)

The purpose of this course is to help students understand the basic elements of narrative structure (e.g. character, dramatic conflict, theme, etc.) and how these elements may be used effectively in media expression. Crosslisted with: ENGL 2382. Restricted to: G-CMI, DFM, ANVE majors. Restricted to Las Cruces campus only.

FDMA 2410. Audio Production II 3 Credits (2+2P)

Students will use skills developed in the Audio Production I course to produce audio projects utilizing a variety of analog and digital audio hardware and software, including continued use of multi-track, computer-based recording and editing systems, as well as exploring more advanced audio techniques and concepts. Restricted to: Community Colleges only.

FDMA 2510. Introduction to Sound Design for Film 3 Credits (3)

This couse is an introduction to the principles, techniques and applications of sound design and film scoring. Students learn how sound affects storytelling in a film, examine the role of sound from the script to screen, and the professional process of creating a soundtrack. Students learn how to use sound equipment in a production environment and execute basic techniques used to develop a soundtrack. Crosslisted with: FDMA 1415.

Prerequisite(s)/Corequisite(s): FDMA 2382. Restricted to: DFM,ANVE majors. Restricted to Las Cruces campus only.

FDMA 2520. Introduction to Cinematography 3 Credits (3)

The Director of Photography (or Cinematographer), in close collaboration with the Director and Production Designer, helps determine the look of a film. This course is designed to intorduce students to the technical and aesthetic fundamentals of creating, developing, and collaborating on the visual elements of storytelling, using camera framing, lensing, and lighting fundamentals such as shadows, light and color. May be repeated up to 6 credits. only. Prerequisite(s)/Corequisite(s): FDMA 2382 (Las Cruces Campus) or FDMA 1210 (Community College Campus(es)

FDMA 2530. Introduction to 3D Modeling 3 Credits (3)

This course will introduce 3D modeling methods and current practices. Students will learn preliminary and detailed modeling techniques using industry standard software. Methods will emphasize formal and functional aspects of modeling as they apply to mechanical, organic, and sculpted topology for application in animation, games, and information media. May be repeated for a maximum of 6 credits.

FDMA 2535. Digital Illustration

3 Credits (3)

Introductory course examining traditional artistic expressions and translating visual art experiences into a digital art medium to enhance visual storytelling. Students acquire basic principles of drawing and painting through hands-on experience manipulating tonal value, composition, form development, light and shadow, color theory, rendering realism, and graphic design. Restricted to: DFM,ANVE majors. Restricted to Las Cruces campus only.

FDMA 2570. Creative Media Studio 3 Credits (2+2P)

A studio environment where students specialize in creating film-festival quality and portfolio-ready projects under the supervision of faculty. May be repeated for a maximum of 6 credits.

Prerequisite(s): FDMA 1210 and FDMA 1220 or FDMA 2530.

FDMA 2710. Beginning 2-D Animation

3 Credits (3)

Students will learn the basics of digital 2D animation by working through a variety of exercises, creating an original storyboard, and animating five or more shots utilizing industry standard software. Restricted to: DFM,ANVE majors. Restricted to Las Cruces campus only.

FDMA 2715. Special Effects

3 Credits (2+4P)

Creating advanced virtual special effects for both rigid and soft bodies. Using MEL, dynamic principles, mixing nodes, and advanced particle systems. How to drive particles over surfaces, add texture to flow, create surface tensions, and use collision events to drive texture. Study of integrating computer-generated images with real-life video and audio. **Prerequisite(s)**: FDMA 2530 or FDMA 2765.

FDMA 2720. 3-D Animation

3 Credits (3)

Overview of the essentials and principles of 3D animation; creative methods for using industry standard tools to produce the illusion of movement for storytelling. Topics include, keyframe and curve animation, kinematics, cycle animation, camera animation, deformers, and constraints.

Prerequisite(s): FDMA 1510, FDMA 2710 or consent of instructor.

FDMA 2725. Rigging for 3D Animation 3 Credite (3)

This course will introduce principles and practices of current 3D animation rigging. Students will develop fundamental methods necessary to create character rigs. Students will learn aesthetic, technical, and optimization concepts as they apply to organic and mechanical designs. Topics will include: hierarchies, constraints, deformation rigging, skeleton creation, skinning, forward and inverse kinematics, controls, body and facial rigging. Restricted to: DFM, ANVE majors.

Prerequisite(s): FDMA 1510.

FDMA 2730. Advanced Character Animation

3 Credits (2+2P)

Focus on complex rigging techniques as well as utilizing advanced animation functions to blend multiple animations into complex animations. May be repeated for a maximum of 6 credits. Restricted to: Community Colleges only.

Prerequisite(s): FDMA 2530.

FDMA 2735. Advanced 3D Animation Workshop A 3 Credits (2+4P)

Program capstone. Students will utilize the skills learned in the program to produce their final animation. Group integrated projects are strongly recommended to emulate a real-work animation studio environment. May be repeated for a maximum of 9 credits. Consent of instructor required. **Corequisite(s):** FDMA 2740.

FDMA 2740. Advanced 3D Animation Workshop B 3 Credits (2+4P)

Program capstone. Students will utilize the skills learned in the program to produce their final animation. Group integrated projects are strongly recommended to emulate a real-work animation studio environment. May be repeated for a maximum of 9 credits. Consent of instructor is required. **Corequisite(s):** FDMA 2735.

FDMA 2745. Light, Shade, Render

3 Credits (3)

This course will explore the theory and practice of 3D lighting and rendering methodologies. Techniques covered will implement cameras, lighting sources, textures, surface-mapping and algorithmic rendering to produce stylized and photo realistic images. Topics covered will include direct and indirect lighting, shaders that simulate physical substances and effects, rendering multiple passes and simulating physical lens effects. Restricted to: DFM,ANVE majors. Restricted to Las Cruces campus only.

Prerequisite(s): FDMA 1510, FDMA 2530, or Consent of Instructor.

FDMA 2750. Digital Sculpting

3 Credits (3)

Introduce students to the 3D Sculpting programs which are the industry standard sculpting programs. Students will learn how to create complex high polygon sculpts and normal maps and transfer the models into 3D studio Max and Autodesk Maya. May be repeated up to 6 credits. Restricted to: Community Colleges only.

Prerequisite(s): FDMA 2530.

FDMA 2755. Drawing for Animation

3 Credits (3)

Introductory study of the human and animal form in relation to animation. Students learn fundamentals and exaggeration of the figure, as related to proportion, rhythm, mechanics, and motion. Areas of focus are: basic form, proportion, shape, contour, gesture, anatomy, portraiture, perspective, clothing effects and drawing from observation. Restricted to: CMT,DFM,ANVE majors.

FDMA 2770. Critical Game Studies 3 Credits (2+2P)

Focus on creating a complete design document utilizing techniques and standards used in the industry today. May be repeated for up to 6 credits. Restricted to: Community Colleges only.

FDMA 2775. Game Tools and Techniques 3 Credits (2+2P)

Focus on the different engines and gaming technologies that power the games of today. May be repeated for a maximum of 6 credits. **Prerequisite(s):** FDMA 2770.

FDMA 2785. Level Design Concepts 3 Credits (2+2P)

Focus on the design and creation of video game levels. Dealing with the challenges and pitfalls of different video game genres. May be repeated for a maximum of 6 credits. Prerequisite(s): FDMA 2770

FDMA 2993. Workshops (Advanced Photogrophy-Subtitle) 1 Credit (1)

This is a series of 1-credit workshops offering specialized and intense advanced skill training and upgrading applications of photography for commercial purposes and training in photographic skills and styles presented by a variety of professional lecturers. May be repeated up to 7 credits. Restricted to Community Colleges only.

Prerequisite(s): FDMA 1545.

FDMA 2994. Portfolio Design & Development

1-3 Credits

Personalized design and creation of the student's professional portfolio including hard-copy, demo reel, and online. May be repeated up to 6 credits. Consent of Instructor required. Restricted to Community Colleges campuses only.

FDMA 2995. Film Crew Cooperative Experience 3-6 Credits (3-6)

Industry production experience in specific craft areas for film crew technicians who have successfully completed two semesters of FTTP. Restricted to: Dona Ana campus, Carlsbad campus.

Prerequisite(s): FDMA 2125.

FDMA 2996. Special Topics 1-4 Credits

Specific topics to be announced in the Schedule of Classes. May be repeated for a maximum of 18 credits.

FDMA 2997. Independent Study

1-3 Credits

Individual studies directed by consenting faculty with prior approval of department head. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): Minimum GPA of 3.0 and sophomore standing.

FDMA 2998. Internship

1-3 Credits

Work experience that directly relates to a student's major field of study that provides the student an opportunity to explore career paths and apply knowledge and theory learned in the classroom. Internships may be paid or unpaid. Students are supervised/evaluated by both the employer and the instructor. May be repeated up to 9 credits. Consent of Instructor required. Graded: S/U Grading (S/U, Audit). Restricted to Community Colleges campuses only. Consent of instructor required.

Name: Matt Byrnes, Department Chair

Website: https://dacc.nmsu.edu/cmt/

Office Location: DADM 2001

Phone: (575) 528-7310

Digital Film - Associate of Applied Science

Doña Ana Community College 2020-21 Catalog

(60 credits)

NOTE: Students must earn a final grade of C- or better in all required General Education and Technical Requirements and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 60 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix Title Credits

General Education

Select one course from four of the following six content areas for a total of 12-14 credits $^{1,\,2}$

This degree requires courses from Areas I, IV, V, and VI; students do not need to take additional courses to complete the General Education requirements.

Area I: Communicatio	ns - English Composition Level 1	4
ENGL 1110G	Composition I 3	
	ioral Sciences - Select any course from New ation Requirements Area IV Social/Behavioral	3
Area V: Humanities		3
ENGL 2520G	Film as Literature ³	
Area VI: Creative and	Fine Arts	3
ARTS 1145G	Visual Concepts ³	
General Education Ele Communications	ective - Area I: Communications - Oral	3
COMM 1130G	Public Speaking ³	
or COMM 1115	G Introduction to Communication	

Major Requirements

Major Requirements		
Technical Requiremen	ts	
ENGL 2381	Script Development and Storyboarding ³	3
or ENGL 2382	Narrative: Principles of Story Across the Media	
FDMA 1210	Digital Video Production I	3
FDMA 1220	Introduction to Digital Video Editing	3
FDMA 1415	Principles of Sound	3
FDMA 1545	Introduction to Photography & Digital Imaging	3
FDMA 2144	Pre-production Management	3
FDMA 2210	Digital Video Production II	3
Can be substituted Animation Track	d with either FDMA 1710 or FDMA 2530 for the	
FDMA 2285	Digital Video Production and Editing II	3
FDMA 2287	Digital Design Studio	3
FDMA 2520	Introduction to Cinematography	3
Can be substituted Animation Track	d with either FDMA 1710 or FDMA 2530 for the	
FDMA 2570	Creative Media Studio	3
FDMA 2994	Portfolio Design & Development	3
Electives - Choose at	least 8 credits from the following:	8
ARTS 1610	Drawing I	
FDMA 2241	Advanced Camera Techniques	
FDMA 2993	Workshops (Advanced Photogrophy-Subtitle)	
FDMA 2995	Film Crew Cooperative Experience	

FDMA 2996	Special Topics	
THEA 1210G	Acting for Non-Majors	
Total Credits		60

- Each course selected must be from a different area and students cannot take multiple courses in the same area.
- See the General Education (p. 52) section of the catalog for a full list
- Courses are identical to those offered at New Mexico State University Las Cruces (main) Campus.

(60 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must earn a final grade of C- or better in all required General Education and Technical Requirements and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 60 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course	Title	Credits
Semester 1		
FALL		
Area I: Communication	ons - Oral Communications	3
COMM 1115G or COMM 1130	Introduction to Communication OG or Public Speaking	
Area VI: Creative and	Fine Arts	3
ARTS 1145G	Visual Concepts	
FDMA 1220	Introduction to Digital Video Editing	3
FDMA 1545	Introduction to Photography & Digital Imaging	3
ENGL 2381 or ENGL 2382	Script Development and Storyboarding or Narrative: Principles of Story Across the Media	3
	Credits	15
Semester 2		
SPRING		
Area I: Oral Commun	ications - English Composition Level 1	4
ENGL 1110G	Composition I	
Area V: Humanities		3
ENGL 2520G	Film as Literature	
FDMA 1210	Digital Video Production I ¹	3
FDMA 1415	Principles of Sound	3
FDMA 2144	Pre-production Management	3
	Credits	16
Semester 3		
Area IV: Social/Behave the NM General Educ	vioral Sciences - Select one course from Area IV of cation requirements.	3
FDMA 2210	Digital Video Production II ²	3
FDMA 2285	Digital Video Production and Editing II $^{\mathrm{2}}$	3

FDMA 2520	Introduction to Cinematography	3
Elective - Choose one f	rom the following:	3
ARTS 1610	Drawing I	
FDMA 2241	Advanced Camera Techniques	
FDMA 2993	Workshops (Advanced Photogrophy-Subtitle)	
FDMA 2995	Film Crew Cooperative Experience	
FDMA 2996	Special Topics	
THEA 1221	Beginning Acting	
	Credits	15
Semester 4		
SPRING		
FDMA 2287	Digital Design Studio	3
FDMA 2570	Creative Media Studio	3
FDMA 2994	Portfolio Design & Development	3
Elective - A list of elective courses can be found in Semester 3.		5
	Credits	14
	Total Credits	60

- It is HIGHLY recommended to take FDMA 1220 Introduction to Digital Video Editing FIRST.
- Can be substituted with either FDMA 1710 2D Animation or FDMA 2530 Introduction to 3D Modeling for the Animation Track.

Digital Graphics Technology -Associate of Applied Science

Doña Ana Community College 2020-21 Catalog

(60-61 credits)

NOTE: Students must earn a final grade of C- or better in all required General Education and Technical Requirements and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 60-61 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	K	Title	Credits
Gene	ral Education		
	t one course from credits ^{1, 2}	four of the following six content areas for a total of	12-14
selec		ourses from Areas I, II, and VI; students must n the remaining areas to complete General ts.	
Ar	ea I: Communica	tions - English Composition Level 1	
EN	NGL 1110G	Composition I ³	
Ar	ea II: Mathematic	es	
M	ATH 1130G	Survey of Mathematics ^{3, 4}	
Ar	ea III: Laboratory	Sciences	
Area IV: Social/Behavioral Sciences			
Ar	ea V: Humanities		
Ar	ea VI: Creative ar	nd Fine Arts	
AF	RTS 1145G	Visual Concepts ³	

Credits

General Education Elective - Area I: Communications - Oral Communications

COMM 1130G	Public Speaking ³	3
or COMM 1115G	Introduction to Communication	
Core Requirements		
Related Requirements		
FDMA 2998	Internship	3
or FDMA 2287	Digital Design Studio	
Major Requirements		
Technical Requiremen	ts	
FDMA 1120	Desktop Publishing	3
FDMA 1360	Web Design I	3
FDMA 1515	Introduction to Digital Image Editing - Photoshop	3
FDMA 1535	Introduction to Illustrator	3
FDMA 1536	Advanced Computer Illustration	3
FDMA 1545	Introduction to Photography & Digital Imaging	3
FDMA 1630	Principles of Design	3
FDMA 2150	Desktop Publishing II	3
FDMA 2312	History of Media Design	3
FDMA 2325	Advanced Photoshop	3
FDMA 2360	Web Design II	3
or FDMA 2365	Web Design for Small Business	
FDMA 2994	Portfolio Design & Development	3
Electives, to bring the	e total credits to 60	
Choose 5 credits from	n the following:	5
ARTS 1610	Drawing I ³	
ARTS 1240	Design I	
ARTS 1710	Introduction to Printmaking	
FDMA 1210	Digital Video Production I	
FDMA 1220	Introduction to Digital Video Editing	
FDMA 1710	2D Animation	
FDMA 2285	Digital Video Production and Editing II	
FDMA 2326	Digital Photography and Imaging II	
FDMA 2360	Web Design II	
FDMA 2365	Web Design for Small Business	
FDMA 2530	Introduction to 3D Modeling	
1-3 credits of appr	roved media-related elective(s)	
Total Credits		60-61

- Each course selected must be from a different area and students cannot take multiple courses in the same area.
- See the <u>General Education</u> (p. 52) section of the catalog for a full list of courses.
- Courses are identical to those offered at New Mexico State University Las Cruces (main) Campus.
- MATH 1130G Survey of Mathematics is required for the degree but students may need to take any prerequisites needed to enter MATH 1130G first.

(60-61 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to

create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must earn a final grade of C- or better in all required General Education and Technical Requirements and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 60 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Title

Course

Course	Title	Credits
Semester 1		
Area I: Communication	s - English Composition Level 1	4
ENGL 1110G	Composition I	
Area VI: Creative and F	ine Arts	3
ARTS 1145G	Visual Concepts	
FDMA 1515	Introduction to Digital Image Editing - Photoshop	3
FDMA 1535	Introduction to Illustrator	3
FDMA 1545	Introduction to Photography & Digital Imaging	3
	Credits	16
Semester 2		
Area II: Mathematics		3
MATH 1130G	Survey of Mathematics	
General Education Elec	tive - Area I: Communications - Oral	3
COMM 1115G	Introduction to Communication	
or COMM 1130G		
FDMA 1120	Desktop Publishing	3
FDMA 1360	Web Design I	3
FDMA 1630	Principles of Design	3
-	Credits	15
Semester 3		
General Education - Ch Areas III, IV, or V in the	oose one course from NM General Education NMSU/DACC Catalog.	3-4
FDMA 1536	Advanced Computer Illustration	3
FDMA 2150	Desktop Publishing II	3
FDMA 2325	Advanced Photoshop	3
FDMA 2360	Web Design II	3
or FDMA 2365	or Web Design for Small Business	
	Credits	15-16
Semester 4		
FDMA 2312	History of Media Design	3
FDMA 2994	Portfolio Design & Development	3
FDMA 2998	Internship	3
or FDMA 2287	or Digital Design Studio	
	se two from the following:	5
ARTS 1240	Design I	
ARTS 1610	Drawing I	
ARTS 1710	Introduction to Printmaking	
FDMA 1210	Digital Video Production I	
FDMA 1220	Introduction to Digital Video Editing	
FDMA 1710	2D Animation	
FDMA 2210	Digital Video Production II	
FDMA 2285	Digital Video Production and Editing II	

FDMA 2326	Digital Photography and Imaging II	
FDMA 2360	Web Design II	
FDMA 2365	Web Design for Small Business	
FDMA 2370	Advanced Web Techniques	
FDMA 2530	Introduction to 3D Modeling	
	Credits	14
	Total Credits	60-61

Game Development - Associate of Applied Science

Doña Ana Community College 2020-21 Catalog

Title

(60 credits)

Prefix

Core Requirements

FDMA 2570

FDMA 2785

NOTE: Students must earn a final grade of C- or better in all required General Education and Technical Requirements and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 60 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

oore riequiremento		
Select one course from a 12-14 credits ^{1, 2}	four of the following six content areas for a total of	12-14
	ourses from Areas I, II, III, and IV; students do onal courses to complete the General Education	
Area I: Communicat	ions - English Composition Level 1	
ENGL 1110G	Composition I ³	
Area II: Mathematic	s	
MATH 1130G	Survey of Mathematics ^{3, 4}	
Area III: Laboratory	Sciences	
Any New Mexico Ge with a 'G' (4 credits)	eneral Education Requirements Area III Course	
Area IV: Social/Beha	avioral Sciences	
Any New Mexico Ge Course with a 'G' (3	eneral Education Requirements Area IV or V credits) ²	
General Education Elect Communications	ive - Area I: Communications - Oral	
COMM 1130G	Public Speaking ³	3
or COMM 1115G	Introduction to Communication	
Core Requirements		
ARTS 1610	Drawing I ³	3
Technical/Related Req	uirements	22
FDMA 1515	Introduction to Digital Image Editing - Photoshop	
FDMA 1531	Evolution of Electronic Games	
FDMA 1630	Principles of Design	
FDMA 1996	Selected Topics	
FDMA 2530	Introduction to 3D Modeling	

Creative Media Studio

Level Design Concepts

	FDMA 2994	Portfolio Design & Development	
El	ectives Based on Fo	cus	18
Aı	rts & Animation		
	ENGL 2381	Script Development and Storyboarding	
	FDMA 1710	2D Animation	
	FDMA 1720	3-D Character Design	
	FDMA 2111	Environmental Scene Design	
	FDMA 2750	Digital Sculpting	
	` ') - Advisor approved electives (ENGL, MATH, C S, BMGT, FDMA, ARCH, DRFT, MUSC, THEA)	
G	ame Design		
	ENGL 2381	Script Development and Storyboarding	
	FDMA 2770	Critical Game Studies	
	FDMA 2775	Game Tools and Techniques	
	` ') - Advisor approved electives (ENGL, MATH, C S, BMGT, FDMA, ARCH, DRFT, MUSC, THEA)	
PI	ogramming		
	FDMA 2775	Game Tools and Techniques	
	•	s) - Advisor approved electives (ENGL, MATH, C CS, BMGT, FDMA, ARCH, DRFT, MUSC, THEA)	

- Each course selected must be from a different area and students cannot take multiple courses in the same area.
- See the <u>General Education</u> (p. 52) section of the catalog for a full list of courses.

60

- Courses are identical to those offered at New Mexico State University Las Cruces (main) Campus.
- MATH 1130G Survey of Mathematics is required for the degree but students may need to take any prerequisites needed to enter MATH 1130G first.

(60 credits)

Total Credits

Credits

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must earn a final grade of C- or better in all required General Education and Technical Requirements and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 60 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course	Title	Credits
Semester 1		
Area I: Communication	s - English Composition Level 1	4
ENGL 1110G	Composition I	
ARTS 1610	Drawing I	3
FDMA 1515	Introduction to Digital Image Editing - Photoshop	3
FDMA 1531	Evolution of Electronic Games	3

EDMA 1006	0.1 . 1.7 .	•
FDMA 1996	Selected Topics	1
	Credits	14
Semester 2		
Area II: Mathematics		3
MATH 1130G	Survey of Mathematics	
FDMA 1630	Principles of Design	3
FDMA 2530	Introduction to 3D Modeling	3
FDMA 2570	Creative Media Studio	3
FDMA 2785	Level Design Concepts	3
	Credits	15
Semester 3		
,	ciences - Choose one course from NM General he NMSU/DACC Catalog.	4
General Education Ele Communications	ective - Area I: Communications - Oral	3
COMM 1115G or COMM 1130	Introduction to Communication G or Public Speaking	
	ocus Area (9 credits) - Advisor approved electives BMGT, C S, DRFT, ENGL, FDMA, MATH, MUSC,	9
	Credits	16
Semester 4		
	ioral Sciences OR Area V: Humanities course. A ound in the current NMSU/DACC Catalog	3
FDMA 2994	Portfolio Design & Development	3
	ocus Area (9 credits) - Advisor approved electives BMGT, C S, DRFT, ENGL, FDMA, MATH, MUSC,	9

Commercial Photography - Certificate of Completion

Total Credits

Doña Ana Community College 2020-21 Catalog

(24 credits)

NOTE: Students must earn a final grade of C- or better in all required General Education and Technical Requirements and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University certificate requirements to total at least 24 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
FDMA 1210	Digital Video Production I	3
FDMA 1515	Introduction to Digital Image Editing - Photoshop	3
FDMA 1545	Introduction to Photography & Digital Imaging	3
FDMA 2325	Advanced Photoshop	3
FDMA 2326	Digital Photography and Imaging II	3
FDMA 2993	Workshops (Advanced Photogrophy-Subtitle) (Take 6 - Each workshop is worth 1 credit.)	6
Choose one from the fo	ollowing:	3
FDMA 2210	Digital Video Production II	

FDMA 2241	Advanced Camera Techniques	
FDMA 2520	Introduction to Cinematography	
Total Credits		24

(24 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must earn a final grade of C- or better in all required General Education and Technical Requirements and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University certificate requirements to total at least 24 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course	Title	Credits
Semester 1		
FDMA 1210	Digital Video Production I	3
FDMA 1515	Introduction to Digital Image Editing - Photoshop	3
FDMA 1545	Introduction to Photography & Digital Imaging	3
FDMA 2993	Workshops (Advanced Photogrophy-Subtitle) (Take 3 - Each workshop is worth 1 credit.)	3
	Credits	12
Semester 2		
FDMA 2325	Advanced Photoshop	3
FDMA 2326	Digital Photography and Imaging II	3
FDMA 2993	Workshops (Advanced Photogrophy-Subtitle) (Take 3 - Each workshop is worth 1 credit.)	3
Choose one from th	ne following:	3
FDMA 2210	Digital Video Production II	
FDMA 2241	Advanced Camera Techniques	
FDMA 2520	Introduction to Cinematography	
	Credits	12
	Total Credits	24

Creative Media - Certificate of Achievement

Doña Ana Community College 2020-21 Catalog

(15 credits)

15

60

NOTE: Students must earn a final grade of C- or better in all required General Education and Technical Requirements and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University certificate requirements to total at least 15 credits. Developmental coursework will not count towards the

degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
Technical Requireme	ents	
FDMA 1545	Introduction to Photography & Digital Imaging	3
FDMA 1535	Introduction to Illustrator	3
FDMA 1515	Introduction to Digital Image Editing - Photoshop	3
Choose two from the	e following:	6
FDMA 1120	Desktop Publishing	
FDMA 1210	Digital Video Production I	
FDMA 1710	2D Animation	
Total Credits		15

(15 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must earn a final grade of C- or better in all required General Education and Technical Requirements and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University certificate requirements to total at least 15 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course	Title	Credits
Semester 1		
FDMA 1515	Introduction to Digital Image Editing - Photoshop	3
FDMA 1535	Introduction to Illustrator	3
FDMA 1545	Introduction to Photography & Digital Imaging	3
Choose two from th	e following:	6
FDMA 1120	Desktop Publishing	
FDMA 1710	2D Animation	
FDMA 1210	Digital Video Production I	
	Credits	15
	Total Credits	15

Digital Audio - Certificate of Completion

Doña Ana Community College 2020-21 Catalog

(18 credits)

NOTE: Students must earn a final grade of C- or better in all required General Education and Technical Requirements and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University certificate requirements to total at least 18 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
Technical Requiremen	ts	
FDMA 1220	Introduction to Digital Video Editing	3
FDMA 1415	Principles of Sound	3
FDMA 2410	Audio Production II	3
Choose 9 credits from	the following:	9
FDMA 2998	Internship	
FDMA 2570	Creative Media Studio	
Other Approved Ele	ectives	
Total Credits		18

(18 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must earn a final grade of C- or better in all required General Education and Technical Requirements and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University certificate requirements to total at least 18 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course	Title	Credits
Semester 1		
FDMA 1220	Introduction to Digital Video Editing	3
FDMA 1415	Principles of Sound	3
FDMA 2410	Audio Production II	3
	Credits	9
Semester 2		
Choose 9 credits from	n the following:	9
FDMA 2998	Internship	
FDMA 2570	Creative Media Studio	
Or other approved	FDMA Elective	
	Credits	9
	Total Credits	18

Digital Graphics - Certificate of Completion

Doña Ana Community College 2020-21 Catalog

(18 credits)

NOTE: Students must earn a final grade of C- or better in all required General Education and Technical Requirements and achieve a cumulative

grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University certificate requirements to total at least 18 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
Technical Requirement	nts	
FDMA 1120	Desktop Publishing	3
FDMA 1360	Web Design I	3
FDMA 1515	Introduction to Digital Image Editing - Photoshop	3
FDMA 1535	Introduction to Illustrator	3
FDMA 1630	Principles of Design	3
FDMA 2150	Desktop Publishing II	3
or FDMA 1536	Advanced Computer Illustration	
Total Credits		18

(18 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must earn a final grade of C- or better in all required General Education and Technical Requirements and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University certificate requirements to total at least 18 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course	Title	Credits
Semester 1		
FDMA 1120	Desktop Publishing	3
FDMA 1515	Introduction to Digital Image Editing - Photoshop	3
FDMA 1535	Introduction to Illustrator	3
	Credits	9
Semester 2		
FDMA 1360	Web Design I	3
FDMA 1630	Principles of Design	3
FDMA 2150	Desktop Publishing II	3
or FDMA 1536	or Advanced Computer Illustration	
	Credits	9
	Total Credits	18

Digital Video - Certificate of Completion

Doña Ana Community College 2020-21 Catalog

(21 credits)

NOTE: Students must earn a final grade of C- or better in all required General Education and Technical Requirements and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University certificate requirements to total at least 21 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
Technical Require	ements	
FDMA 1210	Digital Video Production I	3
FDMA 1220	Introduction to Digital Video Editing	3
FDMA 1360	Web Design I	3
FDMA 1415	Principles of Sound	3
FDMA 1515	Introduction to Digital Image Editing - Photoshop	3
FDMA 1630	Principles of Design	3
FDMA 2210	Digital Video Production II	3
Total Credits		21

(21 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must earn a final grade of C- or better in all required General Education and Technical Requirements and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University certificate requirements to total at least 21 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course	Title	Credits
Semester 1		
FDMA 1210	Digital Video Production I	3
FDMA 1360	Web Design I	3
FDMA 1515	Introduction to Digital Image Editing - Photoshop	3
FDMA 1630	Principles of Design	3
	Credits	12
Semester 2		
FDMA 1220	Introduction to Digital Video Editing	3
FDMA 1415	Principles of Sound	3
FDMA 2210	Digital Video Production II	3
	Credits	9
	Total Credits	21

Film Crew Training - Certificate of Completion

Doña Ana Community College 2020-21 Catalog

(24 credits)

NOTE: Students must earn a final grade of C- or better in all required General Education and Technical Requirements and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University certificate requirements to total at least 24 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
Technical Requirem	ents	
FDMA 2120	Film Crew I/ Introduction to Film and Media Workflow	9
FDMA 2125	Film Crew II	9
Approved Electives in a Specialized Area - Consult with Academic Advisor regarding electives.		6
Total Credits		24

(24 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must earn a final grade of C- or better in all required General Education and Technical Requirements and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University certificate requirements to total at least 24 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course	Title	Credits
Semester 1		
FDMA 2120	Film Crew I/ Introduction to Film and Media Workflow	9
Approved Electives in	n a Specialized Area - Consult with Academic	3
Advisor regarding ele	ectives.	
	Credits	12
Semester 2		
FDMA 2125	Film Crew II	9
Approved Electives in a Specialized Area - Consult with Academic Advisor regarding electives.		3
	Credits	12
	Total Credits	24

Game Design - Certificate of Completion

Doña Ana Community College 2020-21 Catalog

(30 credits)

NOTE: Students must earn a final grade of C- or better in all required General Education and Technical Requirements and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University certificate requirements to total at least 30 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
Technical Requireme	ents	
FDMA 1515	Introduction to Digital Image Editing - Photoshop	3
FDMA 1535	Introduction to Illustrator	3
FDMA 1531	Evolution of Electronic Games	3
FDMA 1720	3-D Character Design	3
FDMA 2111	Environmental Scene Design	3
or FDMA 2715	Special Effects	
FDMA 2530	Introduction to 3D Modeling	3
FDMA 2770	Critical Game Studies	3
FDMA 2775	Game Tools and Techniques	3
FDMA 2785	Level Design Concepts	3
Choose 3 credits from	n the following:	3
FDMA 2730	Advanced Character Animation	
FDMA 2996	Special Topics	
OECS 140	Introduction to Game Production Industry	
OECS 245	Game Programming I	
Approved Media-F	Related Elective	
Total Credits		30

(30 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must earn a final grade of C- or better in all required General Education and Technical Requirements and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University certificate requirements to total at least 30 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course	Title	Credits
Semester 1		
FDMA 1515	Introduction to Digital Image Editing - Photoshop	3
FDMA 1531	Evolution of Electronic Games	3
FDMA 2530	Introduction to 3D Modeling	3
FDMA 2770	Critical Game Studies	3
	Credits	12
Semester 2		
FDMA 1720	3-D Character Design	3
Choose 3 credits from	m the following:	3
FDMA 2730	Advanced Character Animation	
FDMA 2996	Special Topics	
OECS 140	Introduction to Game Production Industry	
OECS 245	Game Programming I	
FDMA 2785	Level Design Concepts	3
FDMA 2775	Game Tools and Techniques	3
Approved Media-	Related Elective	
	Credits	12
Semester 3		
FDMA 1535	Introduction to Illustrator	3
FDMA 2111 or FDMA 2715	Environmental Scene Design or Special Effects	3
	Credits	6
	Total Credits	30

Graphics and Animation - Certificate of Completion

Doña Ana Community College 2020-21 Catalog

(24 credits)

NOTE: Students must earn a final grade of C- or better in all required General Education and Technical Requirements and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University certificate requirements to total at least 24 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
Technical Requiren	nents	
FDMA 1220	Introduction to Digital Video Editing	3
FDMA 1515	Introduction to Digital Image Editing - Photoshop	3
FDMA 2530	Introduction to 3D Modeling	3
Tracks		
Creative or Technic	15	
Total Credits		24

Creative Track

Prefix	Title	Credits
FDMA 1535	Introduction to Illustrator	3
FDMA 1710	2D Animation	3

Total Credits		15
FDMA 2730	Advanced Character Animation	3
FDMA 2715	Special Effects	3
FDMA 1720	3-D Character Design	3

Technical Track

Prefix	Title	Credits
DRFT 109	Computer Drafting Fundamentals	3
DRFT 114	Introduction to Solid Modeling	3
DRFT 165	Introduction to Building Information Modeling	3
DRFT 176	Solid Modeling, Rendering and Animation	3
Approved related el	ective(s)	3
Total Credits		15

(24 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must earn a final grade of C- or better in all required General Education and Technical Requirements and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University certificate requirements to total at least 24 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Graphics & Animation - Creative Track

Course	Title	Credits
Semester 1		
FDMA 1220	Introduction to Digital Video Editing	3
FDMA 1515	Introduction to Digital Image Editing - Photoshop	3
FDMA 1535	Introduction to Illustrator	3
FDMA 2530	Introduction to 3D Modeling	3
	Credits	12
Semester 2		
FDMA 1710	2D Animation	3
FDMA 1720	3-D Character Design	3
FDMA 2730	Advanced Character Animation	3
FDMA 2715	Special Effects	3
	Credits	12
	Total Credits	24

Graphics & Animation - Technical Track

Course	Title	Credits
Semester 1		
DRFT 109	Computer Drafting Fundamentals	3
FDMA 1220	Introduction to Digital Video Editing	3
FDMA 1515	Introduction to Digital Image Editing - Photoshop	3

FDMA 2530	Introduction to 3D Modeling	3
	Credits	12
Semester 2		
DRFT 114	Introduction to Solid Modeling	3
DRFT 165	Introduction to Building Information Modeling	3
DRFT 176	Solid Modeling, Rendering and Animation	3
Approved Related E	Elective - Choose one from the following:	3
DRFT 214	Advanced Solid Modeling	
FDMA 1710	2D Animation	
FDMA 1720	3-D Character Design	
FDMA 2730	Advanced Character Animation	
FDMA 2715	Special Effects	
	Credits	12
	Total Credits	24

Web Design - Certificate of Completion

Doña Ana Community College 2020-21 Catalog

(21 credits)

NOTE: Students must earn a final grade of C- or better in all required General Education and Technical Requirements and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University certificate requirements to total at least 21 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
Technical Requireme	nts	
FDMA 1360	Web Design I	3
FDMA 1515	Introduction to Digital Image Editing - Photoshop	3
FDMA 1630	Principles of Design	3
FDMA 2360	Web Design II	3
FDMA 2365	Web Design for Small Business	3
or FDMA 2370	Advanced Web Techniques	
FDMA 2325	Advanced Photoshop	3
Choose 3 credits from	n the following:	3
FDMA 1535	Introduction to Illustrator	
FDMA 1220	Introduction to Digital Video Editing	
FDMA 2285	Digital Video Production and Editing II	
FDMA 2150	Desktop Publishing II	
FDMA 1536	Advanced Computer Illustration	
FDMA 2735	Advanced 3D Animation Workshop A	
OECS 128	Operating Systems Linux/Unix	
OECS 205	Advanced Operating Systems: Administration	
OECS 216	Programming for the Web	
OECS 220	Database Application and Design	
Approved Web-Re	lated Elective	

Total Credits 21

(21 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must earn a final grade of C- or better in all required General Education and Technical Requirements and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University certificate requirements to total at least 21 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course	Title	Credits
Semester 1		
FDMA 1515	Introduction to Digital Image Editing - Photoshop	3
FDMA 1360	Web Design I	3
FDMA 1630	Principles of Design	3
Choose one from the following:		
FDMA 1220	Introduction to Digital Video Editing	
FDMA 1535	Introduction to Illustrator	
FDMA 1536	Advanced Computer Illustration	
FDMA 2150	Desktop Publishing II	
FDMA 2285	Digital Video Production and Editing II	
FDMA 2735	Advanced 3D Animation Workshop A	
OECS 128	Operating Systems Linux/Unix	
OECS 205	Advanced Operating Systems: Administration	
OECS 216	Programming for the Web	
0ECS 220	Database Application and Design	
Approved Web-Related Elective		
	Credits	12
Semester 2		
FDMA 2325	Advanced Photoshop	3
FDMA 2360	Web Design II	3
FDMA 2365	Web Design for Small Business	3
or FDMA 2370	or Advanced Web Techniques	
	Credits	9
	Total Credits	21

Criminal Justice and Law Enforcement

Associate of Applied Science Degrees

- Corrections
- · Law Enforcement

Associate of Criminal Justice Degree

The Corrections and Law Enforcement programs provide classroom instruction leading to an associate of applied science degree in the fields of corrections or law enforcement. These programs provide courses to prepare for entry-level careers in agencies at the local, state, and federal

levels, as well as private agencies. Some of the career areas available to graduates are law enforcement, private security and related services, adult and juvenile corrections, probation and parole, law, and others.

Those currently working as career officers in corrections and law enforcement can also benefit from the program, which can provide them with a better understanding of their roles in the criminal justice system while helping them prepare for higher level positions within their organizations.

Required Skills and Abilities Physical Abilities

This program requires that the student be able to-

- · lift, carry and balance up to 125 pounds (250 pounds with assistance)
- assume a variety of postural positions and be capable of physical maneuvers ranging from crawling, kneeling, squatting, twisting, turning, and bending, to climbing stairs and ladders)
- withstand varied environmental conditions such as extreme heat, cold, and moisture.

Technology Competencies

In an effort to assist students with adequate preparation for their coursework at DACC, technology competencies have been identified and established. These competencies are in effect for all courses taken in the Corrections, Law Enforcement and Criminal Justice programs. Students must possess the following minimum competencies. Additional competencies may be required for particular courses/programs:

- Access course and program material on the Web using Mozilla Firefox and/or MS Internet Explorer
- · Correspond with DACC students and faculty using e-mail and the Web
- · Read/print e-mail and attachments/files from students and faculty
- Complete, send, and receive assignments using e-mail and attachments/files
- Use the DACC Library e-books, e-journals, databases, or credible World Wide Web resources for research and completion of course assignments
- Prepare and conduct presentations in the classroom using presentation equipment as required.
- Use the appropriate software for a given course (DACC uses as standards Microsoft products, including MS Word, MS Project, MS Excel, and MS PowerPoint)
- · Use CD-ROMs when required as part of course assignments
- Use an appropriate anti-virus application to insure the files transmitted and received are virus free
- Use recommended plagiarism review software to insure work is not plagiarized

Private Security Background Checks for Corrections and Law Enforcement Majors

Every student focusing on the related career fields of fire, law enforcement, Homeland Security, private security, corrections, parole or probation will at some point be subject to a background and criminal history check.

A background check requires that a student complete a multi-part background questionnaire identifying most of the following:

- · All names and aliases used; marriages and divorces
- Previous home and work addresses, names of employers, teachers, and schools, including dates of work and attendance and or transcripts
- · Medical history including any mental health or drug use
- · Credit history
- Criminal history to include arrests, traffic and infraction tickets (Juvenile arrest histories may not be shielded from background checks even if the juvenile record has been sealed.)
- · Military service record
- Driving record, suspensions, tickets and possession of a current driver's license
- Citizenship and/or immigration status to include birth certificate and valid social security number
- And any other background informational requirements unique to each agency
- Current and past Internet social networking information, profiles, postings, e-mail addresses, and cyber-vetting

NOTE: The following categories will eliminate a person from access to internships, training academies, off-site law enforcement related workstudy opportunities, and most criminal justice related jobs:

- Arrest for domestic violence, DUI/DWI, drug use and possession, felony crimes, and misdemeanor crimes (agency dependent)
- Mental impairment based on mental illness and/or drug-alcohol abuse
- · False statements on an application or background check
- Social networking or Internet postings deemed inappropriate or damaging to a candidate's reputation or reputation of potential hiring entities; also, any postings, images, etc., demonstrating a lack of moral turpitude
- · Violations of laws involving moral turpitude
- · Bad credit
- Objectionable visible body art, body modifications or piercings (tattoos on the neck may also disqualify if visible while participating/ working)
- Failure to pass any job-related testing process, including, but not limited to, the following: written examination, oral interview board, physical fitness exam, background check, polygraph examination, psychological examination, medical examination

Degrees

Associate of Applied Science Degree in Corrections

The associate of applied science degree in corrections emphasizes the correctional aspect of the criminal justice systems and offers a broad understanding of correctional institutions and alternatives. General studies are offered to students seeking employment in confinement facilities, institutional security, and other similar programs. The student also is prepared to work in adult and juvenile correctional agencies at the local, state, and federal levels.

Workers in the corrections field are responsible for overseeing individuals who have been arrested and are awaiting trial or who have been convicted of a crime and sentenced to serve time in a jail, reformatory, or penitentiary. The majority of officers are employed by local, county, state, and federal institutions.

While the primary mission of corrections is protection of the public, many officers are involved in the treatment, education, and reintegration of offenders. These officers may find employment as wardens, jail administrators, program coordinators and counselors, public information officers, correctional trainers, case managers, probation/parole officers, corrections officers, detention officers or other related careers.

NOTE: An articulation agreement exists with the New Mexico Corrections Department that makes it possible to receive college credit for experience and/or training.

Associate of Applied Science Degree in Law Enforcement

The associate of applied science degree in law enforcement emphasizes the law enforcement aspect of the criminal justice system. This degree offers the law enforcement student a general understanding of the police officer's multifaceted role in the United States. It also prepares the student with the basic foundations of police work for possible employment opportunities with local, state and federal governments, and private industry.

Most law enforcement officers are employed by the security industry and local, county, and state governments. They have duties that range from providing security to controlling traffic to preventing and investigating crimes. They maintain order, enforce laws and ordinances, issue traffic summonses, investigate accidents, present evidence in court, serve legal documents for the court system, and apprehend, arrest and process prisoners. Career opportunities include positions as private investigators, security officers, loss-prevention officers, police officers, sheriff and deputy officers, criminal investigators, game wardens, private detectives, and bailiffs.

Many law enforcement agencies encourage the applicants to take postsecondary school training in law enforcement-related subjects. Many entry-level applicants for police jobs have completed some formal postsecondary education and a significant number are college graduates. Knowledge of a foreign language is an asset in many federal agencies and urban departments.

Additional information on professional requirements and qualifications may be obtained from the U.S. Department of Labor, Bureau of Labor Statistics, at www.bls.gov.

NOTE: An articulation agreement exists with the New Mexico Department of Public Safety that makes it possible to receive college credit for experience and/or training.

The Associate Degree in Criminal Justice

The associate of criminal justice introduces students to three facets of the criminal justice system: police, courts, and corrections. Broadly interdisciplinary—embracing the study of law, the humanities, and the natural, behavioral, and social sciences—the curriculum prepares students to transfer into the NMSU bachelor's degree program in criminal justice, or the bachelor of applied studies, at the junior level.

Corrections - Associate of Applied Science (p. 181)

Criminal Justice - Associate of Criminal Justice (p. 183)

Law Enforcement - Associate of Applied Science (p. 184)

Public Safety First Line Supervisor - Certificate of Achievement (p. 185)

CJUS 1110G. Introduction to Criminal Justice 3 Credits (3)

This course provides an overall exploration of the historical development and structure of the United States criminal justice system, with emphasis on how the varied components of the justice system intertwine to protect and preserve individual rights. The course covers critical analysis of criminal justice processes and the ethical, legal, and political factors affecting the exercise of discretion by criminal justice professionals.

CJUS 1120. Criminal Law

3 Credits (3)

This course covers basic principles of substantive criminal law including elements of crimes against persons, property, public order, public morality, defenses to crimes, and parties to crime. May be repeated up to 3 credits.

CJUS 1996. Special Topics in Criminal Justice

1-3 Credits

Specific subjects to be announced in the Schedule of Classes. May be repeated under different topics for a maximum of 6 credits.

CJUS 2120. Criminal Courts and Procedure

3 Credits (3)

This course covers the structures and functions of American trial and appellate courts, including the roles of attorneys, judges, and other court personnel, the formal and informal process of applying constitutional law, rules of evidence, case law and an understanding of the logic used by the courts.

CJUS 2140. Criminal Investigations

3 Credits (3)

This course introduces criminal investigations with in the various local, state, and federal law enforcement agencies. Emphasis is given to the theory, techniques, aids, technology, collection, and preservation procedures which insure the evidentiary integrity. Courtroom evidentiary procedures and techniques will be introduced. Community Colleges only. (Note: students completing CJUS 2140 may not take CJUS 321.)

CJUS 2150. Corrections System 3 Credits (3)

This course introduces the corrections system in the United States, including the processing of an offender in the system and the responsibilities and duties of correctional professionals. The course covers the historical development, theory, and practice, as well as the institutional and community-based alternatives available in the corrections process.

CJUS 2160. Field Experience in Criminal Justice 3-6 Credits

This course is designed to provide actual experience working for a criminal justice agency and the opportunity to apply criminal justice concepts and theory to a field situation. Students already working in an agency will complete an approved learning project while on the job. **Prerequisites:** CJUS 1110G, prior arrangement and consent of instructor and a GPA of 2.0 or better in major.

CJUS 2220. The American Law Enforcement System 3 Credits (3)

This course covers the historical and philosophical foundations of law and order, with an in-depth examination of the various local, state, ad federal law enforcement agencies and how they interact within the criminal justice system.

LAWE 180. Public Safety First Line Supervisor 3-6 Credits (3-6)

This course is designed to enhance public safety personnel's human resource management and reduce organizational liability. Consent of Instructor required. Restricted to Community Colleges campuses

LAWE 201. Introduction to Juvenile Delinquency 3 Credits (3)

An introductory overview of the juvenile justice system of due process, custody, detention and release. Note: course does not meet upper division requirements towards completion of Bachelor of Science in Criminal Justice. Restricted to: Community Colleges Only.

LAWE 202. Police Patrol Procedures 3 Credits (3)

A critical review of police procedures and the influences on police behavior; policy development, including the police role; discretion; police community interaction and arrest, search and seizure. Restricted to: Community Colleges only.

LAWE 203. Introduction to Police Supervision 3 Credits (3)

An introductory overview of police supervision and concerns as it applies to law enforcement. (Note: Course does not meet upper division requirements toward completion of Bachelor of Science in Criminal Justice.) Restricted to: Community Colleges only.

LAWE 204. Introduction to Homeland Security 3 Credits (3)

A historical perspective of international and domestic terrorist threats and the need to develop cohesive response policies and practices in the interest of National Security. [Course does not meet requirements towards completion of Bachelor of Science in Criminal Justice.]

Restricted to: Community Colleges only.

Prerequisite(s): CJUS 1110G.

LAWE 205. Practical Field Investigations 4 Credits (3+3P)

Incorporates the current methods and techniques for the management of the crime scene, includes documentation, collection and preservation of evidence and case presentations. [Course does not meet requirements towards completion of Bachelor of Science in Criminal Justice.]

Restricted to Community Colleges campuses only.

Prerequisite(s): CJUS 1110G and CJUS 2140.

LAWE 206. Traffic Enforcement and Crash Investigations 3 Credits (3)

History and development of traffic laws and regulations, including basic elements of traffic violations, detection, apprehension, impaired drivers and guidelines and procedures for effective crash investigations and reporting. Restricted to: Community Colleges only.

LAWE 207. Legal Aspects of Law Enforcement 3 Credits (3)

An evaluation of police authority including responsibilities, civil liability, liability implications, legal obligations, legal restraints, laws of arrest, and search and seizure. Retricted to: Community Colleges only.

LAWE 221. Law Enforcement Internship 3 Credits (3)

Application of knowledge, skills and abilities, in an agency as an intern and integrated member of a law enforcement affiliated agency. **Prerequisite:** consent of instructor.

LAWE 233. Practical Approach to Terrorism 3 Credits (3)

Gives responders an overall safety approach in recognizing and responding to incidents involving terrorism. Presents and overview in types of harm, explosive weapons, chemical weapons, biological weapons and radiological weapons. [Course does not meet requirements towards completion of Bachelor of Science in Criminal Justice.]

Restricted to: Dona Ana campus only. Crosslisted with: FIRE 233

LAWE 255. Special Topics

1-3 Credits (1-3)

Introductory special topics of lower division level work that provides a variety of timely subjects and content material. Specific subjects to be announced in the Schedule of Classes. A passing grade of C- or better is required. May be repeated up to 6 credits. Consent of Instructor required. Restricted to Community Colleges campuses

LAWE 298. Independent Study

3 Credits (3)

Individual studies directed by the consenting faculty with prior approval of the department chair. A passing grade of C- or better is required. May be repeated up to 6 credits. Consent of Instructor required. Restricted to Community Colleges campuses

Prerequisite(s): Sophomore standing with a 3.0 or better GPA.

Name: Mark Nunley, Public Services Department Chair

Office Location: DASR 220-I Phone: (575) 527-7746

Website: https://dacc.nmsu.edu/lwcj/

Corrections - Associate of Applied Science

Doña Ana Community College 2020-21 Catalog

Corrections

The Corrections degree emphasizes the correctional aspect of the criminal justice systems and offers a broad understanding of correctional institutions and alternatives.

Workers in the corrections field are responsible for overseeing individuals who have been arrested and are awaiting trial or who have been convicted of a crime and sentenced to serve time in a jail, reformatory, or penitentiary. The majority of officers are employed by local, county, state, and federal institutions.

While the primary mission of corrections is protection of the public, many officers are involved in the treatment, education, and reintegration of offenders. These officers may find employment as wardens, jail administrators, program coordinators and counselors, public information officers, correctional trainers, case managers, probation/parole officers, corrections officers, detention officers or other related careers.

NOTE: An articulation agreement exists with the New Mexico Corrections Department that makes it possible to receive college credit for experience and/or training.

NOTE: All courses in this program may be applied toward a Bachelor of Applied Studies of Individualized Studies degree at NMSU.

Prefix

General Education

(60 credits)

NOTE: Students must earn a final grade of C- or better in all Criminal Justice (CJUS) and Law Enforcement (LAWE) courses and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 60 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Title

Select one course from 12-14 credits ^{1, 2}	four of the following six content areas for a total of	12-14
	courses from Areas I, II, IV, and V; students do not all courses to complete the General Education	
Area I: Communica	ations	
ENGL 1110G	Composition I 3	
Area II: Mathemati	cs	
	natics/algebra course from Area II of the New lucation Requirements ²	
Area IV: Social/Bel	navioral Sciences	
POLS 1120G	American National Government ³	
Area V: Humanities	3	
PHIL 1115G	Introduction to Philosophy ³	
General Education Elec	tive	
COMM 1130G	Public Speaking ³	3
or COMM 1115G	Introduction to Communication	
Core Requirements (6	Credits)	
PSYC 1110G	Introduction to Psychology 3	3
SOCI 1110G	Introduction to Sociology ³	3
Major Requirements		
Technical Requirement	s (28 Credits)	
CJUS 1110G	Introduction to Criminal Justice 3	3
CJUS 1120	Criminal Law ³	3
CJUS 2120	Criminal Courts and Procedure 3	3
CJUS 2150	Corrections System ³	3
CJUS 2160	Field Experience in Criminal Justice ³	3
or LAWE 204	Introduction to Homeland Security	
LAWE 201	Introduction to Juvenile Delinquency	3
LAWE 205	Practical Field Investigations	4
LAWE 207	Legal Aspects of Law Enforcement	3
LAWE 233	Practical Approach to Terrorism	3
Electives, to bring the	total credits to 60	
Electives chosen in co	onsultation with advisor	10
Total Credits		60

- Each course selected must be from a different area and students cannot take multiple courses in the same area.
- See the <u>General Education</u> (p. 52) section of the catalog for a full list of courses.
- Courses are identical to those offered at New Mexico State University Las Cruces (main) Campus.

NOTE: All courses in this program may be applied toward a Bachelor of Applied Studies of Individualized Studies degree at NMSU.

(60 credits)

Credits

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must earn a final grade of C- or better in all Criminal Justice (CJUS) and Law Enforcement (LAWE) courses and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 60 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course	Title	Credits
Semester 1		
Area I: communications	s - English Composition Level 1	4
ENGL 1110G	Composition I	
Area IV: Social/Behavio	ral Sciences	3
POLS 1120G	American National Government	
LAWE 201	Introduction to Juvenile Delinquency	3
CJUS 1110G	Introduction to Criminal Justice	3
Elective Course - chose	n in consultation with academic advisor	3
	Credits	16
Semester 2		
Area III Mathematics - (Choose one course from NM General Education	3
SOCI 1110G	Introduction to Sociology	3
CJUS 1120	Criminal Law	3
CJUS 2120	Criminal Courts and Procedure	3
Elective Course - Chose	en in consultation with academic advisor	3
	Credits	15
Semester 3		
General Education Elec	tive	3
COMM 1115G or COMM 1130G	Introduction to Communication or Public Speaking	
CJUS 2150	Corrections System	3
LAWE 207	Legal Aspects of Law Enforcement	3
LAWE 233	Practical Approach to Terrorism	3
Area V: Humanities		3
PHIL 1115G	Introduction to Philosophy	
	Credits	15
Semester 4		
PSYC 1110G	Introduction to Psychology	3
CJUS 2160	ELLIE I LOUI LUI	2
00002.00	Field Experience in Criminal Justice	3

13

60-61

Elective Course - Chosen in consultation with academic advisor	
Credits	14
Total Credits	60

Criminal Justice - Associate of Criminal Justice

Doña Ana Community College 2020-21 Catalog

NOTE: All courses listed under "General Education" and "Major Requirements" may be applied toward a bachelor's degree in criminal justice at NMSU. Students must earn a final grade of C- or better in ENGL 1110G Composition I, the Mathematics requirement(s), all Major requirements, and achieve a cumulative GPA of 2.0.

NOTE: Students must earn a final grade of C- or better in all Criminal Justice (CJUS) courses and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

(60-61 credits)

General Education Elective

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 60 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
General Education		
Area I: Communications		
English Composition - L	evel 1	
ENGL 1110G	Composition I	4
English Composition - L	evel 2	
Choose one from the f	ollowing:	3
ENGL 2210G	Professional & Technical Communication	
ENGL 2221G	Writing in the Humanities and Social Science	
Oral Communication		
COMM 1130G	Public Speaking	3
or COMM 1115G	Introduction to Communication	
Area II: Mathematics ¹		3-4
Area III/IV: Laboratory S	Science and Social/Behavioral Sciences ¹	10
CJUS 1110G	Introduction to Criminal Justice	
Area III: Laboratory	Science 1	
	are recommended options for the second Area vother Area IV courses are also acceptable.	
ECON 1110G	Survey of Economics	
or SOCI 1110G	Introduction to Sociology	
Area V: Humanities ¹		3
One of the following	g courses is recommended:	
PHIL 1120G	Logic, Reasoning, & Critical Thinking	
PHIL 1145G	Philosophy, Law, and Ethics	
PHIL 2110G	Introduction to Ethics	
PHIL 2230G	Philosophical Thought	
Area VI: Creative and Fi	ne Arts ¹	3
Select one course from	n Area VI - Creative/Fine Arts ¹	

An additional Area IV: S recommended ¹	Social/Behavioral Sciences course is	3
Major Requirements		
CJUS 101G is required General Education and	for this degree and will count towards both Major Requirements	
CJUS 1120	Criminal Law ²	3
CJUS 2120	Criminal Courts and Procedure ²	3
CJUS 2140	Criminal Investigations ²	3
CJUS 2150	Corrections System ²	3
CJUS 2220	The American Law Enforcement System ²	3

- See the <u>General Education</u> (p. 52) section of the catalog for a full list of courses
- Courses are identical to those offered at New Mexico State University Las Cruces (main) Campus.
- Electives should be selected in consultation with an academic advisor, the NMSU Catalog and the bachelor's degree requirements to ensure course transfer. Second language courses are recommended if they are required by the intended bachelor's degree.

(60-61 credits)

A Suggested Plan of Study

Electives, to bring the total credits to 60 3

Total Credits

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: All courses listed under "Core Requirements" and "Major Requirements" may be applied toward a bachelor's degree in criminal justice at NMSU. Students must earn a final grade of C- or better in ENGL 1110G Composition I, the Mathematics requirement(s), all Major requirements, and achieve a cumulative GPA of 2.0.

NOTE: Students must earn a final grade of C- or better in all Criminal Justice (CJUS) courses and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 60 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course	Title	Credits
Semester 1		
Area I: Communication	ons - English Composition Level 1	4
ENGL 1110G	Composition I	
Area II: Mathematics advisor.	- Choose course in consultation with academic	3-4
Area IV: Social/Behav	vioral Sciences	3
CJUS 1110G	Introduction to Criminal Justice	
	Fine Arts - Choose one course from NM General list of courses can be found in the NMSU/DACC	3
	Credits	13-14

Semester 2 Area I: Communications - English Composition Level 2 **Professional & Technical Communication ENGL 2210G** or ENGL 2221G or Writing in the Humanities and Social Science Area I: Communications - Oral Communications 3 COMM 1115G Introduction to Communication or Public Speaking or COMM 1130G Area III: Laboratory Sciences - Choose one course from NM General Education Area III. A list of courses can be found in the NMSU/DACC Catalog. **CJUS 1120** Criminal Law 3 Elective - Choose elective in consultation with academic advisor. If student desires a bachelor in CJUS degree, Spanish or another language is recommended to meet the NMSU 2nd year fluency in a foreign language requirement. Reaching this level of proficiency can require up to 14 credits of coursework depending on student's language placement. Credits 16 Semester 3 Area III: Laboratory Sciences - Choose one course from NM General 4 Education Area III. A list of courses can be found in the NMSU/DACC Catalog Area V: Humanities - PHIL 1120G, PHIL 1145G, PHIL 2110G, or 3 PHIL 2230G recommended; however, any NM General Education Area V course is acceptable. **CJUS 2140 Criminal Investigations** 3 **CJUS 2220** The American Law Enforcement System 3 Elective - Choose elective in consultation with academic advisor. 3 If student desires a bachelor in CJUS degree, Spanish or another language is recommended to meet the NMSU 2nd year fluency in a foreign language requirement. Reaching this level of proficiency can require up to 14 credits of coursework depending on student's language placement. Credits 16 Semester 4 General Education Elective - An additional Area IV: Social/Behavioral 3 Sciences course is recommended. **CJUS 2120** Criminal Courts and Procedure 3 3 **CJUS 2150** Corrections System **ECON 1110G** 3 Survey of Economics or SOCI 1110G or Introduction to Sociology 3 Elective - Choose elective in consultation with academic advisor. If student desires a bachelor in CJUS degree, Spanish or another language is recommended to meet the NMSU 2nd year fluency in a foreign language requirement. Reaching this level of proficiency can require up to 14 credits of coursework depending on student's language placement. Credits 15 **Total Credits**

Law Enforcement - Associate of Applied Science

Doña Ana Community College 2020-21 Catalog

Law Enforcement

The Law Enforcement degree emphasizes the law enforcement aspect of the criminal justice system. This degree offers the law enforcement

student a general understanding of the police officer's multifaceted role in the United States. It also prepares the student with the basic foundations of police work for possible employment opportunities with local, state and federal governments, and private industry.

Most law enforcement officers are employed by the security industry and local, county, and state governments. They have duties that range from providing security to controlling traffic to preventing and investigating crimes. They maintain order, enforce laws and ordinances, issue traffic summonses, investigate accidents, present evidence in court, serve legal documents for the court system, and apprehend, arrest and process prisoners. Career opportunities include positions as private investigators, security officers, loss-prevention officers, police officers, sheriff and deputy officers, criminal investigators, game wardens, private detectives, and bailiffs.

Many law enforcement agencies encourage the applicants to take postsecondary school training in law enforcement-related subjects. Many entry-level applicants for police jobs have completed some formal postsecondary education and a significant number are college graduates. Knowledge of a foreign language is an asset in many federal agencies and urban departments.

Additional information on professional requirements and qualifications may be obtained from the U.S. Department of Labor, Bureau of Labor Statistics, at www.bls.gov.

NOTE: An articulation agreement exists with the New Mexico Department of Public Safety that makes it possible to receive college credit for experience and/or training.

NOTE: All courses in this program may be applied toward a Bachelor of Applied Studies or Individualized Studies degree at NMSU.

(60 credits)

Prefix

60-61

General Education

NOTE: Students must earn a final grade of C- or better in all Criminal Justice (CJUS) and Law Enforcement (LAWE) courses and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 60 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Credits

Select one course from 12-14 credits ^{1, 2}	four of the following six content areas for a total of	12-14
J ,	courses from Areas I, II, IV, and V; students do not al courses to complete the General Education	
Area I: Communica	ations- English Composition Level 1	
ENGL 1110G	Composition I 3	
Area II: Mathemati	cs	
	algebra course selected from Area II of the New lucation Requirements ²	
Area IV: Social/Bel	navioral Sciences	
POLS 1120G	American National Government ³	
Area V: Humanities		

PHIL 1115G	Introduction to Philosophy ³	
General Education Elec Communications	tive - Area I: Communications - Oral	
COMM 1130G	Public Speaking ³	3
or COMM 1115G	Introduction to Communication	
Core Requirements (6	Credits)	
PSYC 1110G	Introduction to Psychology ³	3
SOCI 1110G	Introduction to Sociology ³	3
Technical Requirement	its (30 Credits)	
CJUS 1110G	Introduction to Criminal Justice 3	3
CJUS 1120	Criminal Law ³	3
CJUS 2120	Criminal Courts and Procedure ³	3
CJUS 2140	Criminal Investigations ³	3
LAWE 201	Introduction to Juvenile Delinquency	3
LAWE 202	Police Patrol Procedures	3
LAWE 204	Introduction to Homeland Security	3
LAWE 206	Traffic Enforcement and Crash Investigations	3
LAWE 207	Legal Aspects of Law Enforcement	3
LAWE 233	Practical Approach to Terrorism	3
Electives, to bring the	total to 60	
Electives - Chosen in o	consultation with academic advisor ⁴	8
Total Credits		60

- Each course selected must be from a different area and students cannot take multiple courses in the same area.
- See the <u>General Education</u> (p. 52) section of the catalog for a full list of courses.
- Courses are identical to those offered at New Mexico State University Las Cruces (main) Campus.
- Elective credit may vary based on prerequisites, dual credit, AP credit, and/or certificate coursework. The amount indicated in the requirements list is the amount needed to bring the total to 60 credits and may appear in variable form based on the degree. However students may end up needing to complete more or less on a case-by-case basis and students should discuss elective requirements with their advisor.

NOTE: All courses in this program may be applied toward a Bachelor of Applied Studies or Individualized Studies degree at NMSU.

(60 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must earn a final grade of C- or better in Criminal Justice (CJUS) and Law Enforcement (LAWE) courses and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 60 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course	Title	Credits
Semester 1	Title	Credits
	ns - English Composition Level 1	4
ENGL 1110G	Composition I	7
Area IV: Social/Behavi	•	6
CJUS 1110G	Introduction to Criminal Justice	- U
POLS 1120G	American National Government	
LAWE 201	Introduction to Juvenile Delinquency	3
LAWL 201	Credits	13
Semester 2	Credits	13
	Choose one course from NM General Education	3
Area V: Humanities		3
PHIL 1115G	Introduction to Philosophy	
CJUS 1120	Criminal Law	3
CJUS 2120	Criminal Courts and Procedure	3
Elective - Chosen in co	onsultation with academic advisor.	4
-	Credits	16
Semester 3		
Area IV: Social/Behavi	oral Sciences	3
SOCI 1110G	Introduction to Sociology	
General Education Ele Communications	ctive - Area I: Communications - Oral	3
COMM 1115G or COMM 1130	Introduction to Communication G or Public Speaking	
CJUS 2140	Criminal Investigations	3
LAWE 202	Police Patrol Procedures	3
LAWE 233	Practical Approach to Terrorism	3
	Credits	15
Semester 4		
Area IV: Social/Behavi	oral Sciences	3
PSYC 1110G	Introduction to Psychology	
LAWE 204	Introduction to Homeland Security	3
LAWE 206	Traffic Enforcement and Crash Investigations	3
LAWE 207	Legal Aspects of Law Enforcement	3
Elective - Chosen in co	onsultation with academic advisor.	4
	Credits	16
	Total Credits	60

Public Safety First Line Supervisor - Certificate of Achievement

Doña Ana Community College 2020-21 Catalog

(3 credits)

Students must complete all University certificate of achievement requirements to total at least 3 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

NOTE: Students must earn a final grade of C- or better in all required courses and achieve a cumulative grade-point average of at least 2.0.

Prefix	Title	Credits
Core Requirements		
LAWE 180	Public Safety First Line Supervisor	3

(3 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

Students must complete all University certificate of achievement requirements to total at least 3 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

NOTE: Students must earn a final grade of C- or better in all required courses and achieve a cumulative grade-point average of at least 2.0.

Course	Title	Credits
Semester 1		
LAWE 180	Public Safety First Line Supervisor	3
	Credits	3
	Total Credits	3

Culinary Arts

Associate of Applied Science Degree

The Culinary Arts program trains chefs, pastry chefs, cooks, and bakers for positions in restaurants, resorts, institutions, cruise lines, hotels, and any venue where quality food is prepared. Working in state-of-the-art culinary laboratories, students learn, experiment, create, and define the future of gastronomy in our region.

The program leads to a Certificate of Completion in Culinary Arts in either Savory or Baking and Pastry specialties or an Associate of Applied Science (AAS) degree in a dynamic and in-demand profession that directly relates to the workforce needs of this region, while establishing the student's credentials to work in the food service industry. It is designed for students entering the culinary arts field, as well as those with previous experience who want to upgrade their professional skills.

A DACC Culinary Arts Certificate of Completion assures employers that graduates possess the knowledge and skills needed in the industry. The program has been designed to meet the requirements of the American Culinary Federation.

A DACC Culinary Arts AAS degree assures employers that graduates possess the knowledge and skills needed in the industry. The program has been designed to meet the requirements of the American Culinary Federation.

Culinary Arts degree students are required to provide their own tools (knives, etc.) and uniforms (specific uniform requirements are available from instructors).

NOTE: Because it is comprised primarily of vocational/technical courses, this Career and Technical Education program is not intended for transfer

to a four-year institution. Students will be required to provide their own approved uniforms and equipment for laboratory courses. There may be a fee assessed for certain laboratory courses.

Special Admissions Criteria

Culinary Arts is a competitive-entry program. Prior to applying to the program, students will have completed, and passed with a C- or better, the courses required to be taken in their initial semester

Prefix	Title	Credits
CHEF 101	Culinary Arts Kitchen Orientation	3
CHEF 165	Math for Kitchen Operations	3
HOST 201	Introduction to Hospitality Industry	3

Students must have received their New Mexico Food Handler's Card prior to admission to the Culinary Arts program. Students may apply for entry into the cohort at the end of their first semester by preparing an essay detailing their career goals and reasons for seeking admission into the Culinary Arts program, participating in an oral interview with Culinary Arts instructors, and completing the admissions application documents.

Culinary Arts - Associate of Applied Science (p. 188)

Culinary Arts - Baking & Pastry - Certificate of Completion (p. 189)

Culinary Arts - Savory - Certificate of Completion (p. 190)

CHEF 101. Culinary Arts Kitchen Orientation 3 Credits (3)

Provides students with basic information and skills necessary for success in the Culinary Arts program. Students learn basic kitchen routines, safety and sanitation, professional conduct and deportment, standard kitchen calculations, knife handling, and are introduced to the laboratories for initial cooking experiences. Restricted to Community Colleges campuses only.

CHEF 125. Introductory Cake Decorating 1 Credit (2P)

Introduction to the professional cake decorating techniques used by pastry chefs. Basic skills of piping a variety of icings into different patterns are taught. Restricted to Community Colleges campuses only. **Prerequisite(s)**: Consent of instructor.

CHEF 126. Intermediate Cake Decorating 1 Credit (2P)

Introduction to more advanced professional cake decorating techniques used by pastry chefs. Fondant work and more complex decorating schemes are taught. Restricted to Community Colleges campuses only. **Prerequisite(s):** CHEF 125.

CHEF 127. Chocolate Work

1 Credit (2P)

Introduction to working with chocolate utilizing a variety of methods. Tempering, forming, molding, and other professional techniques will be taught. Restricted to Community Colleges campuses only.

Prerequisite(s): Consent of Instructor.

CHEF 128. Advanced Chocolate Work 1 Credit (2P)

More advanced treatments of chocolate are explored and professional techniques for the chocolatier are developed. Restricted to Community Colleges campuses only.

Prerequisite(s): CHEF 127.

CHEF 129. Wedding Cake Design and Construction 1 Credit (2P)

Basic skills in designing wedding (or other specialty event) cakes. Includes shaping, icing selection, decorating scheme, presentation, transportation, and remote set up. Restricted to Community Colleges campuses only.

Prerequisite(s): CHEF 125 and CHEF 126.

CHEF 155. Special Topics

1-3 Credits (1-3)

Specific subjects to be announced in the Schedule of Classes. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

CHEF 165. Math for Kitchen Operations

3 Credits (3)

Fundamental mathematical concepts and computations, including measurement, recipe scaling and conversions, metric unit conversion, ingredient yield calculations, ratios and cost extensions are covered. Examples of basic mathematical calculations use kitchen and food service functions, as well as situations to demonstrate principles.

CHEF 211. Food Production Management I 3 Credits (2+2P)

Introduction to kitchen design, workflow, and commercial equipment. Techniques, methods, and application of basic food production principles. Practical experience in cooking processes from a managerial viewpoint. Crosslisted with: HOST 211. Restricted to Community Colleges only.

CHEF 212. Food Production Management II 3 Credits (2+2P)

Selection and use of ingredients. Demonstration and application of classical and modern cooking and preparation techniques. Management techniques for kitchen personnel. Recipe design and analysis. Crosslisted with: HOST 212. Restricted to Community Colleges only.

Prerequisite(s): CHEF 211 or consent of instructor.

CHEF 213. Bakery Management I 3 Credits (2+2P)

Fundamentals of baking from a supervisory/management perspective. Exposure to commercial equipment and processes. Introduction to commercial alternatives to scratch-preparation methods. Crosslisted with: HOST 213. Restricted to Community Colleges only.

CHEF 214. Bakery Management II 3 Credits (2+2P)

Advanced techniques and management of bakery operations are explored. Students learn classical forms and techniques. Modern methods of preparing traditional pastry and baked goods are introduced. Crosslisted with: HOST218. Restricted to Community Colleges only.

Prerequisite(s): CHEF 213 or consent of instructor.

CHEF 233. Culinary Arts Fundamentals I 4 Credits (1+9P)

Introduction to the basics of culinary arts, including ingredients recognition, cooking methods and techniques, knife usage, preparation of basic stocks, mother sauces, starches and vegetables. Students will participate in laboratory work designed to create an understanding of the professional role of the culinarian. Preparation and production of food products integral to service to guests is incorporated in the course. May be repeated up to 4 credits. Consent of Instructor required. Restricted to: CHEF, HOST, HSMG, HOCH majors. Restricted to Community Colleges campuses only.

CHEF 234. Culinary Arts Fundamentals II 4 Credits (1+9P)

Continuation of introductory course focusing on meat cookery, daughter sauces, cold food preparation, poultry and seafood. Safe use of equipment is emphasized while experiencing differing methods of preparation and cooking. Preparation and production of food products integral to service of guests is incorporated in this course. May be repeated up to 4 credits. Restricted to: HOST,HSMG,CHEF majors. Restricted to Community Colleges campuses only.

Prerequisite(s): CHEF 233 with a grade of 'C-' or better.

CHEF 235. Advanced Culinary Arts I 4 Credits (1+9P)

Exploration and experience in preparation techniques beyond the basic level. Nutritional components of food are discussed, as in the application of good nutrition practices in recipe design. Students are encouraged to use creative methods to expand the individual's culinary expressions. Prepares food products for service to guests in both bulk feeding and individual service settings. Plans, prepares, serves and critiques meals provided for students, faculty and staff. May be repeated up to 4 credits. Prerequisite(s)/Corequisite(s): CHEF 234 with a grade of 'C' or better if course has been previously taken. Restricted to: CHEF majors. Restricted to Community Colleges campuses only.

CHEF 236. Advanced Culinary Arts II 4 Credits (1+9P)

Advanced techniques and experimental use of food combinations to enhance the student's repertoire of skills and abilities. Utilizes knowledge to develop recipes for unique products. Plans, prepares, serves and critiques meals provided for students, faculty and staff. Restricted to: CHEF majors. Restricted to Community Colleges campuses only.

Prerequisite(s): CHEF 235 with a grade of 'C' or better.

CHEF 237. Banquet/Catering Production 3 Credits (1+6P)

Planning and implementation of the culinary aspects of catered functions. Development of time schedules, work assignments and service plans for catered events and banquet functions. Production of food items in appropriate quantities for catered events. Costing and control functions are covered. May be repeated up to 6 credits. Restricted to: CHEF, HOST majors. Restricted to Community Colleges campuses only. **Prerequisite(s):** Grade of 'C' or above in CHEF 233.

CHEF 240. Baking Fundamentals I 4 Credits (1+9P)

Introduction to baking techniques, measurment and use of ingredients; equipment use and chemical reactions inherent in the baking process. Production of simple desserts and baked goods. Itroduction to working with bread doughs. Restricted to: HOST, CHEF majors. Restricted to Community Colleges campuses only.

Corequisite(s): CHEF 233.

CHEF 241. Baking Fundamentals II 4 Credits (1+9P)

More advanced baking and bread making techniques are covered in this course with emphasis on the more advanced elements of quantity production. Students work with a variety of products and ingredients. Restricted to: HOST, CHEF majors. Restricted to Community Colleges campuses only.

Prerequisite(s): grade of 'C' or above in CHEF 240.

CHEF 242. Intermediate Baking I

4 Credits (1+9P)

More advanced baking and pastry techniques are covered in this course with emphasis on the basic elements of patisserie production. Focus is on preparing students to work in a pastry kitchen. Restricted to: HOST, CHEF majors. Restricted to Community Colleges campuses only.

Prerequisite(s): Grade of 'C' or above in CHEF 241.

CHEF 243. Intermediate Baking II

4 Credits (1+9P)

Continuation of work with basic elements of patisserie products including laminated doughs and filled products. Students prepare creams, custards, fillings and are introduced to cake assembly procedures. Restricted to: CULI majors. Restricted to Community Colleges campuses only

Prerequisite(s): Grade of 'C' or above in CHEF 242.

CHEF 255. Special Topics

3 Credits (3)

Specific subjects to be announced in the Schedule of Classes. May be repeated up to 6 credits. Restricted to: CULI, HOST, HSMG majors. Restricted to Community Colleges campuses only.

CHEF 256. International Cuisine

3 Credits (1+6P)

Exploration into a variety of international cuisines is undertaken, including the cultural and historical backgrounds of the foods being prepared. Students work on developing themed menus and production plans for meals utilizing a single international cuisine. May be repeated up to 6 credits. Restricted to: CHEF, HOST majors. Restricted to Community Colleges campuses only.

Prerequisite(s): Grade of 'C' or above in CHEF 233.

CHEF 257. Garde Manger

3 Credits (1+6P)

Traditional garde manger skills are taught, including plated salads, cold foods, entrements, pates, forcemeat, terrines, charcuterie and chaud froid work. The art and craft of food design, preparation and service are emphasized. May be repeated up to 3 credits. Restricted to: CHEF, HOST majors. Restricted to Community Colleges campuses only.

Prerequisite(s): Grade of 'C' or above in CHEF 233.

CHEF 260. Nutrition for Chefs

3 Credits (3)

Aspects of basic human nutritional requirements are covered as are the applications of the standards to the cooking and baking. Meeting the USDA nutrient guidelines while preparing good tasting food is discussed, calorie, fat and sodium reduction techniques are explored.

Name: Kim Seifert, Department Chair

Office Location: DAEM 100G

Phone: (575) 527-7640

Website: https://dacc.nmsu.edu/chef/

Name: Nancy Gonzalez, Teaching Tech

Office Location: DASR 220Q

Phone: (575) 528-7412

Culinary Arts - Associate of Applied Science

Doña Ana Community College 2020-21 Catalog

Title

(78-79 credits)

Prefix

General Education

NOTE: Students must earn a final grade of C- or better in all designated CHEF courses and Major Requirements and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 78-79 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Credits

Ochiciai Education		
Select one course fro 12-14 credits ^{1, 2}	om four of the following six content areas for a total of	12-14
	s courses from Areas I, II, IV, and VI; students need nal course to complete the General Education	
Area I: Communi	cations - English Composition Level 1	
ENGL 1110G	Composition I ^{3, 4}	
Area II: Mathema	atics	
MATH 1130G	Survey of Mathematics ⁵	
Area IV: Social/B	ehavioral Sciences	
ECON 1110G	Survey of Economics	
Area VI: Creative	and Fine Arts	
ARTS 1145G	Visual Concepts	
General Education El	ective ²	3-4
Core Requirements	(21 Credits)	
BMGT 240	Human Relations	3
CHEF 101	Culinary Arts Kitchen Orientation ^{3,4}	3
HOST 201	Introduction to Hospitality Industry ³	3
CHEF 165	Math for Kitchen Operations ³	3
BMGT 201	Work Readiness and Preparation	3
OATS 215	Spreadsheet Applications	3
or OECS 215	Spreadsheet Applications	
OATS 105	Business English	3
Major Requirements	s (36 Credits)	
HOST 203	Hospitality Operations Cost Control ⁴	3
HOST 208	Hospitality Supervision ⁴	3
H0ST 214	Purchasing and Kitchen Management ⁴	3
HOST 219	Safety, Security and Sanitation in Hospitality Operations ^{3,4}	3
CHEF 233	Culinary Arts Fundamentals I ⁴	4
CHEF 234	Culinary Arts Fundamentals II ⁴	4
CHEF 235	Advanced Culinary Arts I 4	4
CHEF 236	Advanced Culinary Arts II 4	4
CHEF 240	Baking Fundamentals I ⁴	4
Electives, to bring t	ne total credits to 75	
	f 9 credits from any CHEF courses not listed	g
Total Credits		78-79

Each course selected must be from a different area and students cannot take multiple courses in the same area.

Cradite

- See the <u>General Education</u> (p. 52) section of the catalog for a full list of courses.
- Courses are identical to those offered at New Mexico State University Las Cruces (main) Campus.
- A grade of C- or better is required.
- MATH 1130G Survey of Mathematics is required for the degree but students may need to take any prerequisites needed to enter MATH 1130G first.

(78-79 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must earn a final grade of C- or better in all designated CHEF courses and Major Requirements and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 78 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course	Title	Credits
Semester 1		
BMGT 201	Work Readiness and Preparation	3
CHEF 101	Culinary Arts Kitchen Orientation	3
CHEF 165	Math for Kitchen Operations	3
HOST 201	Introduction to Hospitality Industry	3
OATS 215	Spreadsheet Applications	3
or OECS 215	or Spreadsheet Applications	
	Credits	15
Semester 2		
ENGL 1110G	Composition I	4
CHEF 233	Culinary Arts Fundamentals I	4
CHEF 240	Baking Fundamentals I	4
CHEF Approved Electiv	ve - Any CHEF course not listed in requirements	3
may be used.		
	Credits	15
Semester 3		
BMGT 240	Human Relations	3
CHEF 234	Culinary Arts Fundamentals II	4
HOST 203	Hospitality Operations Cost Control	3
HOST 208	Hospitality Supervision	3
CHEF Approved Election may be used.	ve - Any CHEF course not listed in requirements	3
	Credits	16
Semester 4		
CHEF 235	Advanced Culinary Arts I	4
H0ST 214	Purchasing and Kitchen Management	3
HOST 219	Safety, Security and Sanitation in Hospitality Operations	3
OATS 105	Business English	3

CHEF Approved El may be used.	lective - Any CHEF course not listed in requirements	3
	Credits	16
Semester 5		
MATH 1130G	Survey of Mathematics	3
ECON 1110G	Survey of Economics	3
ARTS 1145G	Visual Concepts	3
CHEF 236	Advanced Culinary Arts II	4
General Education	Elective - Choose one course from the NM General	3-4
Education Require	ements in the NMSU/DACC Catalog.	
	Credits	16-17
	Total Credits	78-79

Culinary Arts - Baking & Pastry - Certificate of Completion

Doña Ana Community College 2020-21 Catalog

Title

(43 credits)

Drofiv

NOTE: Students must earn a final grade of C- or better in all Foundation, Major, and Elective Courses and achieve a cumulative grade-point average of at least 2.0.

Students must complete all University certificate requirements to total at least 43 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Pretix	litle	Credits
Foundation Courses (1	12 Credits)	
CHEF 101	Culinary Arts Kitchen Orientation	3
CHEF 165	Math for Kitchen Operations	3
HOST 219	Safety, Security and Sanitation in Hospitality Operations	3
OATS 215	Spreadsheet Applications	3
Major Courses (22 Cre	edits)	
CHEF 240	Baking Fundamentals I	4
CHEF 241	Baking Fundamentals II	4
CHEF 242	Intermediate Baking I	4
CHEF 243	Intermediate Baking II	4
HOST 203	Hospitality Operations Cost Control	3
HOST 214	Purchasing and Kitchen Management	3
Elective Courses (9 Cr	edits)	9
CHEF 125	Introductory Cake Decorating	
CHEF 126	Intermediate Cake Decorating	
CHEF 127	Chocolate Work	
CHEF 128	Advanced Chocolate Work	
CHEF 129	Wedding Cake Design and Construction	
Total Credits		43

(43 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to

create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must earn a final grade of C- or better in all Foundation, Major, and Elective Courses and achieve a cumulative grade-point average of at least 2.0.

Students must complete all University certificate requirements to total at least 43 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course	Title	Credits
Semester 1		
CHEF 101	Culinary Arts Kitchen Orientation	3
CHEF 165	Math for Kitchen Operations	3
CHEF 240	Baking Fundamentals I	4
CHEF 241	Baking Fundamentals II	4
	Credits	14
Semester 2		
CHEF 242	Intermediate Baking I	4
CHEF 243	Intermediate Baking II	4
HOST 219	Safety, Security and Sanitation in Hospitality Operations	3
OATS 215	Spreadsheet Applications	3
	Credits	14
Semester 3		
HOST 203	Hospitality Operations Cost Control	3
HOST 214	Purchasing and Kitchen Management	3
Electives - Chosen in c	oordination with faculty advisor.	9
	Credits	15
	Total Credits	43

Culinary Arts - Savory - Certificate of Completion

Doña Ana Community College 2020-21 Catalog

(43 credits)

NOTE: Students must earn a final grade of C- or better in all required Foundation, Major and Elective Requirement courses and achieve a cumulative grade-point average of at least 2.0.

Students must complete all University certificate requirements to total at least 43 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
Foundation Courses		
CHEF 101	Culinary Arts Kitchen Orientation	3
CHEF 165	Math for Kitchen Operations	3
HOST 219	Safety, Security and Sanitation in Hospitality Operations	3
OATS 215	Spreadsheet Applications	3
Core Elements		
CHEF 233	Culinary Arts Fundamentals I	4
CHEF 234	Culinary Arts Fundamentals II	4

CHEF 235	Advanced Culinary Arts I	2	1
CHEF 236	Advanced Culinary Arts II	2	1
HOST 203	Hospitality Operations Cost Control	3	3
HOST 208	Hospitality Supervision	3	3
Elective Courses (9	credits total required)	g	9
CHEF 237	Banquet/Catering Production		
CHEF 256	International Cuisine		
CHEF 257	Garde Manger		
CHEF 260	Nutrition for Chefs		
H0ST 214	Purchasing and Kitchen Management		
Total Credits		43	3

(43 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must earn a final grade of C- or better in all required Foundation, Major and Elective Requirement courses and achieve a cumulative grade-point average of at least 2.0.

Students must complete all University certificate requirements to total at least 43 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course	Title	Credits
Semester 1		
CHEF 101	Culinary Arts Kitchen Orientation	3
CHEF 165	Math for Kitchen Operations	3
CHEF 233	Culinary Arts Fundamentals I	4
CHEF 234	Culinary Arts Fundamentals II	4
	Credits	14
Semester 2		
CHEF 235	Advanced Culinary Arts I	4
CHEF 236	Advanced Culinary Arts II	4
HOST 219	Safety, Security and Sanitation in Hospitality Operations	3
OATS 215	Spreadsheet Applications	3
	Credits	14
Semester 3		
HOST 203	Hospitality Operations Cost Control	3
HOST 208	Hospitality Supervision	3
Electives - Chose	n in coordination with faculty advisor.	9
	Credits	15
	Total Credits	43

Dental Assistant

Certificate of Completion

Dental assisting is both a challenging and a rewarding profession. Dental assistants are people who like helping others, enjoy working closely with patients and other members of the dental team. They tend to like working with their hands. In fact, assistants frequently are relied on as

the dentist's "other set of hands." Thus constantly challenging the dental assistant to expand and grow their knowledge and skill sets.

There is no lack of variety in the types of tasks that dental assistants perform. They

- · prepare equipment, materials, and instruments for patient care;
- · perform sterilization and disinfection procedures;
- · provide patients with instructions for dental procedures;
- create temporary crowns, bleaching trays, & custom fitted sport mouth guards;
- · provide coronal polishing and placement of sealants;
- · take impressions of teeth;
- · take patient vital signs;
- · provide oral hygiene instruction for patients
- · create study casts (molds);
- · take and review patient medical histories;
- · expose, develop, and mount dental radiographs;
- · perform a variety of other duties.

They may also be responsible for administrative tasks, such as billing, patient verification, scheduling of various types of treatment appointments, and material inventory.

Assistants may work in a general-practice office where a dentist provides multiple types of treatment, including restorative/operative work (fillings), prosthetics (crowns, bridges, and dentures), and perhaps some surgery. They may want to specialize for work in periodontics, oral and maxillofacial surgery, endodontics, pedodontics, or orthodontics.

In the state of New Mexico, dental assistants can become certified to perform the following expanded duties:

- · radiology (taking x-rays),
- · coronal polishing (polishing of teeth and removal of stains),
- fluoride treatments (the act of placing fluoride on a patient's teeth),
- · sealant placement (used to prevent decay).

These certifications are obtained through the State Dental Board and are a portion of the Dental Assisting National Board Certification Exam.

The Dental Assistant program at DACC is nationally accredited by the American Dental Association, Commission on Dental Program Accreditation. It is also recognized by the New Mexico State Board of Dentistry as a continuing-education provider.

Important Facts About This Certificate Program

For information concerning the total cost, financing, time to completion, and job placement rates associated with this program, visit the following web page: https://dacc.nmsu.edu/vd/GEI/DA-DAS-CT/Gedt.html

Course Fees

In addition to tuition, a course fee of \$250 is charged for <u>DAS 115</u> Dental Radiology.

Required Skills and Abilities

Students will need to demonstrate good oral expression (speech clarity) and written comprehension in English, critical thinking skills, near vision,

and physical stamina (e.g., the ability to stand for long periods of time), as well as the ability to manipulate dental/medical equipment, move/lift patients and equipment up to 50 pounds without assistance, and perform patient care procedures with manual dexterity.

Program Admission Special Requirements

The Dental Assistant program is a limited-entry, special-application program. When a candidate is considered for acceptance into the program, the following factors are taken into account:

- · High school and/or college transcripts and GPA (not less than 3.0)
- · Proof of county residency
- Essay (in accordance with rubric and instructions included in packet)
- Copy of <u>current</u> healthcare provider CPR card and proof of current immunizations
- Completion of English, communication, and biology courses prior to applying to program (completion of other general education, DAS 101, 131, 133 and related requirements also considered)
- Acknowledgment of physical capabilities required of a dental assistant
- · Completion of program application (submitted by deadline)

Website: https://dacc.nmsu.edu/das/

Dental Assistant - Certificate of Completion (p. 192)

Program Director: Martha McCaslin, CDA, MA, Professor

Clinical Coordinator: Rocio Miller, CDA, MA, Assistant Professor

DAS 101. Introduction to Dental Assisting 2 Credits (2)

An introduction to the duties and responsibilities of a dental assistant. Includes brief lessons on head and neck anatomy, chair side assisting, sterilization techniques, dental office emergencies, and dental office management. Restricted to: Community Colleges only.

DAS 111. Bio-Dental Science 4 Credits (3+3P)

An introduction to biomedical and dental sciences with emphasis on head and neck anatomy and tooth morphology. Includes microbiology, general anatomy and physiology, histology and embryology of the oral cavity, pathology and pharmacology as they relate to dentistry.

Corequisite(s): DAS 113, DAS 115, and DAS 117.

Prerequisite(s)/Corequisite(s): PSYC 1110G, PHLS 1110G, and NUTR 2110. Prerequisite(s): ENGL 1110G, BIOL 1130, and (COMM 1130G or COMM 1115G). Restricted to: OEDA majors. Restricted to Alamogordo, Carlsbad and Dona Ana campuses.

DAS 113. Dental Assisting I 4 Credits (2+6P)

Introduction to chair side assisting procedures, instrumentation, infection control, equipment safety and maintenance, dental office emergencies, and management of pain and anxieties.

Corequisite(s): DAS 111, DAS 115, and DAS 117.

Prerequisite(s)/Corequisite(s): PSYC 1110G, PHLS 1110G, and NUTR 2110. Prerequisite(s): ENGL 1110G, BIOL 1130, and (COMM 1130G or COMM 1115G). Restricted to: OEDA majors. Restricted to Alamogordo, Carlsbad and Dona Ana campuses.

DAS 115. Dental Radiology

3 Credits (2+3P)

Radiation physics, hygiene, and safety theories. Emphasis on the fundamentals of oral radiographic techniques and interpretation of radiographs. Includes exposure of intra-oral radiographs, quality assurance, radiographic interpretation, patient selection criteria, and other ancillary radiographic techniques.

Corequisite(s): DAS 111, DAS 113, and DAS 117.

Prerequisite(s)/Corequisite(s): PSYC 1110G, PHLS 1110G, and NUTR 2110. Prerequisite(s): ENGL 1110G, BIOL 1130, and (COMM 1130G or COMM 1115G). Restricted to: OEDA majors. Restricted to Alamogordo, Carlsbad and Dona Ana campuses.

DAS 117. Dental Materials

3 Credits (2+3P)

Composition, chemical and physical properties, manipulation and uses of dental materials. Laboratory experiences include the application and manipulation of various materials used in dentistry.

Corequisite(s): DAS 111, DAS 113, and DAS 115.

Prerequisite(s)/Corequisite(s): PSYC 1110G, PHLS 1110G, and NUTR 2110. Prerequisite(s): ENGL 1110G, BIOL 1130, and (COMM 1130G or COMM 1115G). Restricted to: OEDA majors. Restricted to Alamogordo, Carlsbad and Dona Ana campuses.

DAS 123. Dental Assisting Practicum

6 Credits (1+15P)

This course is the clinical component of the program that combines general practice and experiences in the work place. Seminar topics focus on the practicum experiences and critique of performance. Restricted to Alamogordo, Carlsbad and Dona Ana campuses.

Prerequisite(s): DAS 111, DAS 113, DAS 115, and DAS 117.

Corequisite(s): DAS 125, DAS 127, and DAS 129.

DAS 125. Professional Concepts

3 Credits (3)

Emphasis on the development of professionalism for the dental office. Includes oral communication, psychology, patient relations, problemsolving skills, stress management, and employability in addition to dental jurisprudence and ethics. Restricted to Alamogordo, Carlsbad and Dona Ana campuses.

Prerequisite(s): DAS 111, DAS 113, DAS 115, and DAS 117.

Corequisite(s): DAS 123, DAS 127, and DAS 129.

DAS 127. Dental Office Management

2 Credits (2)

This capstone course is an introduction to business office procedures, including telephone management, appointment control, accounts payable, completion of third party reimbursement forms, inventory control data entry for charges and payments, management recall, basic dental computer software and operating basic business equipment. Restricted to: OEDA majors. Restricted to Alamogordo, Carlsbad and Dona Ana campuses.

Prerequisite(s): DAS 111, DAS 113, DAS 115, and DAS 117.

Corequisite(s): DAS 123, DAS 125, and DAS 129.

DAS 129. Preventive Dentistry

2 Credits (2)

Prevention of dental diseases, oral hygiene instruction, fluoride, community dental health, and nutrition. Development, implementation and evaluation of a community dental health project. Restricted to Alamogordo, Carlsbad and Dona Ana campuses.

Prerequisite(s): DAS 111, DAS 113, DAS 115, and DAS 117.

Corequisite(s): DAS 123, DAS 125, and DAS 127.

DAS 130. Dental Assisting II

4 Credits (2+6P)

Continuation of chair side assisting skills and techniques with a major emphasis on four-handed dentistry. This capstone course includes specialties within dentistry and expanded chair side functions. Restricted to Alamogordo, Carlsbad and Dona Ana campuses.

Prerequisite(s): DAS 111, DAS 113, DAS 115, DAS 117, DAS 123, DAS 125, DAS 127, and DAS 129.

DAS 131. Dental Office Management I

3 Credits (3)

Introduction to the field of dental office management with emphasis placed on professional verbal and written communication skills utilized within the dental office. Content includes dental terminology, charting, and back office experience as they relate to dental reception and management.

Prerequisite(s)/Corequisite(s): DAS 101, AHS 120, and AHS 202. Prerequisite(s): ENGL 1110G. Restricted to Alamogordo, Carlsbad and Dona Ana campuses.

DAS 133. Dental Office Management II 3 Credits (3)

Places emphasis on computer programs specifically designed for dental office management (Dentrix, Sof Dent, etc.) Expanded course content on oral communication and telephone skills, appointment scheduling, patient relations, stress management solutions, and comprehensive critical thinking/problem solving skills.

Prerequisite(s)/Corequisite(s): AHS 202. Prerequisite(s): ENGL 1110G, DAS 101, and AHS 120. Restricted to Alamogordo, Carlsbad and Dona Ana campuses.

DAS 155. Special Topics

1-6 Credits

Specific subjects to be announced in the Schedule of Classes. May be repeated for a maximum of 12 credits.

Prerequisite: consent of instructor.

Name: Martha McCaslin, CDA, MA

Professor

Program Director

Office Location: DASH 98D

Phone: (575) 527-7653

E Mail: mmccasli@nmsu.edu

Website: https://dacc.nmsu.edu/das/

Dental Assistant - Certificate of Completion

Doña Ana Community College 2020-21 Catalog

(51 credits)

NOTE: Students must earn a final grade of C- or better in all required courses/Technical Requirements and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University certificate requirements, which include: General Education requirements and elective credits to total at least 51 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
Core Requirements		
ENGL 1110G	Composition I 1,2	4
COMM 1130G	Public Speaking ^{1,2}	3
or COMM 1115G	Introduction to Communication	
BIOL 1130G	Introductory Anatomy & Physiology (non-majors)	4
Related Requirements	3	
All these courses are	required to complete the program	
NUTR 2110	Human Nutrition ²	3
PHLS 1110G	Personal Health & Wellness	3
PSYC 1110G	Introduction to Psychology ²	3
Technical Requirement	its	
DAS 111	Bio-Dental Science	4
DAS 113	Dental Assisting I	4
DAS 115	Dental Radiology	3
DAS 117	Dental Materials	3
DAS 130	Dental Assisting II	4
DAS 123	Dental Assisting Practicum	6
DAS 125	Professional Concepts	3
DAS 127	Dental Office Management	2
DAS 129	Preventive Dentistry	2
Total Credits		51

- Must be completed before a student can apply to the Dental Assistant program.
- Courses are identical to those offered at New Mexico State University-Las Cruces (main) Campus.

(51 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must earn a final grade of C- or better in all required courses/Technical Requirements and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University certificate requirements, which include: General Education requirements and elective credits to total at least 51 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course	Title	Credits
Semester 1		
SPRING		
Area I: Communicati	ons - English Composition Level 1	4
ENGL 1110G	Composition I	

Area I: Communicat	ions - Oral Communications	3
COMM 1115G or COMM 113	Introduction to Communication OG or Public Speaking	
Area IV: Social/Beha	vioral Sciences	3
PHLS 1110G	Personal Health & Wellness	
BIOL 1130G	Introductory Anatomy & Physiology (non- majors)	4
	Credits	14
Semester 2		
SUMMER		
Area IV: Social/Beha	vioral Sciences	3
PSYC 1110G	Introduction to Psychology	
NUTR 2110	Human Nutrition	3
	Credits	6
Semester 3		
FALL		
DAS 111	Bio-Dental Science	4
DAS 113	Dental Assisting I	4
DAS 115	Dental Radiology	3
DAS 117	Dental Materials	3
	Credits	14
Semester 4		
SPRING		
DAS 123	Dental Assisting Practicum	6
DAS 125	Professional Concepts	3
DAS 127	Dental Office Management	2
DAS 129	Preventive Dentistry	2
	Credits	13
Semester 5		
SUMMER		
DAS 130	Dental Assisting II	4
	Credits	4
	Total Credits	51

Dental Hygiene

Associate of Applied Science Degree

A dental hygienist is a vital member of a team of dental professionals dedicated to improving oral health and supporting the general health of individuals and groups. As licensed professionals, dental hygienists provide educational, clinical, and therapeutic services and may be involved in research, administration, client/patient advocacy, marketing or consulting. Dental hygienists may practice in a variety of settings such as private dental offices, public health facilities, schools, nursing homes and hospitals. They may also work in correctional facilities, business and industry and other settings.

Dental hygienists in a clinical setting perform oral and general health assessments and provide oral health instruction, as well as counseling regarding nutrition and healthy lifestyle and their impact on oral and general health. Dental hygienists take and interpret radiographs and provide many types of preventive services such as removing deposits from teeth, applying fluoride, placing sealants and more. Infection control and emergency management are also important functions. In New Mexico and other states, dental hygienists may be certified to provide local anesthesia.

Dental hygienists enjoy working with people, have good manual dexterity and enjoy working with their hands. They possess the maturity and critical thinking skills to provide current, quality, professional care. They have strong interpersonal skills to motivate and educate patients of all ages. Dental hygienists are lifelong learners and are dedicated to continuing education, enhancing the profession and practicing ethical decision-making and behavior.

Dental hygienists are generally well paid and are respected professionals in their communities. Job opportunities in the field are expected to grow much faster than the average for all occupations through 2022. Graduation from this program qualifies students to take national and state examinations to become licensed dental hygienists anywhere in the country, and there are international employment opportunities for dental hygienists educated in the U.S.

Students wishing to pursue a Bachelor's degree should consult with an advisor regarding transferability of courses in the prerequisite list as well as the dental hygiene curriculum.

Required Skills and Abilities

Students will need to demonstrate good oral expression (speech clarity) and written comprehension in English, critical thinking skills, near vision, and physical stamina (e.g., the ability to sit for long periods of time and move about freely), as well as the ability to manipulate dental/medical equipment, move/lift equipment up to 30 pounds without assistance, and perform patient care procedures with manual precision.

Program Admission Special Requirements

This is a limited entry program. Successful candidates generally have a GPA of 3.0 or higher. Faculty student ratio in the clinical setting is 1-to-5. All science courses must be taken within 5 years before admission to the program.

Core Requirements

General education and related classes are required prior to applying to the Dental Hygiene Program and are identical to those offered at New Mexico State University Las Cruces (main) Campus (29 credits):

Prefix	Title	Credits
BIOL 2310 & 2310L	Microbiology and Microbiology Lab ¹	4
BIOL 2210	Human Anatomy and Physiology I for the Health Sciences ¹	4
BIOL 2225	Human Anatomy and Physiology II ¹	4
CHEM 1120G	Introduction to Chemistry Lecture and Laboratory (non majors) ¹	4
CHEM 2120	Integrated Organic Chemistry and Biochemistry ¹	3
ENGL 1110G	Composition I 1	4
MATH 1220G	College Algebra ¹	3
NUTR 2110	Human Nutrition ¹	3
Total Credits		29

Courses are identical to those offered at New Mexico State University Las Cruces (main) Campus.

Course Fees

In addition to tuition, a fee of \$400 is charged for each of the following courses:

Prefix	Title	Credits
DHYG 122	Clinical Dental Hygiene I	3
DHYG 132	Clinical Dental Hygiene II	2
DHYG 212	Clinical Dental Hygiene III	4
DHYG 222	Clinical Dental Hygiene IV	4

Dental Hygiene - Associate of Applied Science (p. 196)

DHYG 110. Preclinical Dental Hygiene 3 Credits (3)

Basic scientific principles and current theory, prevention of disease transmission, ethical and professional treatment of patients, clinical learning preparation, and introduction to comprehensive patient care. Offered concurrently with DHYG 112 to provide dental hygiene students with introductory knowledge, skills and attitudes to function in the clinical setting. May be repeated up to 3 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

DHYG 112. Preclinical Dental Hygiene Lab 3 Credits (12P)

Clinical application to basic theories and procedures used in dental hygiene practice. Techniques of instrumentation used in performing diagnostic, preventive and therapeutic services utilized when providing comprehensive patient care. Student will practice these techniques on manikins and student partners in the clinic. May be repeated up to 3 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

DHYG 114. Oral Histology and Embryology 2 Credits (2)

Introduction and description of general histology and embryology with emphasis on the microscopic structures of enamel, dentin, pulp, cementum, periodontal ligament, bone, oral mucosa, epithelial attachment and development of orofacial structures. May be repeated up to 2 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

DHYG 116. Head and Neck Anatomy 3 Credits (3)

Comprehensive study of the anatomy of the head and neck regions, including skeletal, nervous, circulatory, lymphatic, and muscular systems. May be repeated up to 3 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

DHYG 117. Dental Anatomy 2 Credits (2+1P)

A detailed study of nomenclature, morphologic characteristics, and physiologic relationships of human primary and permanent teeth as related to the clinical practice of dental hygiene. Laboratory activities develop observation and dexterity skills. May be repeated up to 2 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

DHYG 118. Dental Radiology 3 Credits (3+4P)

Study of radiation physics, hygiene and safety theories. Fundamentals of oral radiographic techniques and interpretation of radiographs. Includes exposure of intra-oral radiographs, quality assurance, radiographic interpretation, patient selection criteria, ancillary radiographic techniques and application to dental hygiene treatment. May be repeated up to 3 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

DHYG 120. Dental Hygiene Theory I 3 Credits (3)

Continuation of the theoretical basis for dental hygiene clinical practice. Emphasis on emergency care, planning dental hygiene care, health promotion and disease prevention, oral rehabilitation and care of appliances, modifications of dental hygiene care through the life-span, and an introduction to medically comprised patients. May be repeated up to 3 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

DHYG 122. Clinical Dental Hygiene I 3 Credits (16P)

Application of dental hygiene procedures on a variety of clinical patients under direct supervision of faculty. Emphasis on patient assessment and diagnosis, treatment procedures, appointment planning and prevention techniques. Theory is simultaneously related to practical experience. Offered concurrently with DHYG 120. May be repeated up to 3 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

DHYG 124. General and Oral Pathology 3 Credits (3)

Introduction to general pathology with focused study of diseases and disorders of the oral cavity and their interrelationship with body systems; developmental anomalies of the teeth and jaws; manifestations of disease in the oral cavity, head and neck. May be repeated up to 3 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

DHYG 126. Periodontology

3 Credits (3)

Study of normal and diseased periodontium to include the structural, functional and environmental factors. Emphasis on etiology, pathology, evaluation of disease, treatment modalities, and therapeutic and preventative periodontics relative to the hygienist's role as a co-therapist in a contemporary practice setting. May be repeated up to 3 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

DHYG 132. Clinical Dental Hygiene II 2 Credits (2)

Continuation of clinical skills, patient assessment and diagnosis, treatment and appointment planning, preventive techniques and application of dental hygiene procedures at an intermediate level under the direct supervision of faculty. Clinical-based instruction helps students synthesize new knowledge, apply previous knowledge, and gain experience managing the workflow. Theory is simultaneously related to practical experience. May be repeated up to 2 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only. Prerequisite(s): 'C' or above in DHYG 120, DHYG 122, DHYG 124,

DHYG 126, DHYG 134. **Corequisite(s):** DHYG 218.

DHYG 134. Dental Materials

3 Credits (2+2P)

Study of the composition, chemical and physical properties, manipulations, and uses of dental materials. Emphasis on materials and procedures for which the dental hygienist is directly responsible. Laboratory experiences include application and manipulation of various materials used in dentistry. May be repeated up to 3 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

DHYG 210. Dental Hygiene Theory III

2 Credits (2)

Advanced theory of dental hygiene and information on periodontal therapies relative to the hygienist's role as a co-therapist in clinical practice. Continuation of the study of dental hygiene care for medically comprised patients and an introduction to special needs patients. May be repeated up to 2 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

DHYG 212. Clinical Dental Hygiene III 4 Credits (16P)

Continuation of clinical skills, patient assessment and diagnosis, treatment and appointment planning, preventive techniques and applications of dental hygiene procedures at the intermediate to competent level under supervision of faculty. Emphasis on dental hygiene treatment for the medically compromised and periodontally involved patients. Theory is simultaneously related to practical experience. Offered concurrently with DHYG 210. May be repeated up to 4 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

DHYG 214. Dental Pharmacology 3 Credits (3)

Study of the pharmacologic aspects of drugs and drug groups with which the dentist and dental hygienist are directly and indirectly concerned. Emphasis is placed on nomenclature, origin, physical and chemical properties, preparation, modes of administration and effects of drugs upon the body systems. May be repeated up to 3 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

DHYG 215. Medical and Dental Emergencies 2 Credits (2)

This course provides an overview of medical and dental emergencies encountered most frequently in the dental setting. It also provides the student with knowledge and techniques on how to address those emergencies should they occur. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

DHYG 217. Research Methodology 2 Credits (2)

This course provides an introduction to the principles and application of research methods in social, behavioral and medical research. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

DHYG 218. Pain and Anxiety Management 2 Credits (2)

Study of the application of various physical, chemical, and psychological modalities to the prevention and treatment of preoperative and postoperative patient anxiety and pain. Emphasis on administration of local anesthesia and nitrous oxide. May be repeated up to 2 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

DHYG 219. Pain and Anxiety Management Clinical 1 Credit (4P)

Clinical application of concepts learned in DHYG 218. Emphasis on the administration and techniques of local anesthesia and monitoring nitrous oxide. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

Prerequisite(s): DHYG 218.

DHYG 220. Dental Hygiene Theory IV 3 Credits (3)

Theoretical preparation for advanced clinical practice. In-depth study of dental hygiene care for patients with special needs. Case Study presentations and a Board Review are utilized to demonstrate the synthesis of comprehensive dental hygiene knowledge, skills and attitudes. The most current dental and dental hygiene technology will be reviewed as it related to clinical practice. May be repeated up to 3 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

DHYG 222. Clinical Dental Hygiene IV 4 Credits (16P)

Clinical sessions combine basic and advanced dental hygiene skills with time management techniques essential for private practice. Comprehensive patient care to include assessment, dental hygiene diagnosis, treatment planning, implementation and evaluation of dental care, nonsurgical periodontal therapy, adjunct clinical procedures, ultrasonic instrumentation, patient management, sealants, and comprehensive programs for control of oral diseases will be emphasized. Theory is simultaneously related to practical experience. Students are encouraged to develop independent decision-making with minimal faculty supervision. May be repeated up to 4 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

DHYG 224. Principles of Practice 2 Credits (2)

Examination of the dental hygienist's role in both traditional and non-traditional employment settings. Career planning, resume preparation and interviewing are practices. An understanding of the law, professional ethics of dental hygiene and the need for lifelong learning are emphasized. Future roles of the dental hygienist and emerging issues in dental hygiene will be explored. May be repeated up to 2 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

DHYG 225. Dental Public Health Education 3 Credits (3)

Study of principles and concepts of community public health and dental health education. Emphasis on dental epidemiology and statistical methods, community assessment, educational planning, implementation, and evaluation, scientific review of literature, and classroom presentation. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

DHYG 255. Special Topics in Dental Hygiene 1-6 Credits (1-6)

Study of special topics related to the advanced practice of dental hygiene. May include educational methodology as well as applications in clinical practice, research, or community service. Consent of instructor required. Restricted to: Community Colleges only. Restricted to DHYG majors.

Name: Elmer Gonzalez, Program Director

Office Location: DASH 98C Phone: (575) 528-7216

Website: https://dacc.nmsu.edu/dhyg/

Dental Hygiene - Associate of Applied Science

Doña Ana Community College 2020-21 Catalog

(99 credits)

Prefix

General Education

Note: Students must earn a final grade of C- or better in ENGL 1110G Composition I and MATH 1220G College Algebra per DACC guidelines; however, the Dental Hygiene program strongly recommends students earn a C or better in those courses. Students must earn a C or better in all other required General Education and Core Requirements. In addition, students admitted to the program must receive a final grade of C (77%) or higher to remain in the program. Clinical courses have additional requirements that must be met in addition to the grade of C (77%).

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 99 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Credits

All General Education and Core Requirements must be met before formally applying to the program.

Title

General Education		
Select one course from 12-14 credits ^{1, 2}	n four of the following six content areas for a total of	12-14
,	courses from Areas I, II, III and IV; students do tional courses to complete the General Education	
Area I: Communic	ations	
ENGL 1110G	Composition I 3	
Area II: Mathemat	ics	
MATH 1220G	College Algebra (Core Requirement) ³	
Area III: Laborator	y Sciences	
CHEM 1120G	Introduction to Chemistry Lecture and Laboratory (non majors) (Core Requirement) ³	
Area IV: Social/Be	havioral Sciences	
PSYC 1110G	Introduction to Psychology (Core Requirement) 3	
General Education Elec	ctive	
COMM 1130G	Public Speaking (Core Requirement (either)) ³	3
or COMM 1115G	Introduction to Communication	
Core Requirements		
BIOL 2310 & 2310L	Microbiology and Microbiology Lab ³	4
BIOL 2210	Human Anatomy and Physiology I for the Health Sciences ³	4
BIOL 2225	Human Anatomy and Physiology II ³	4
CHEM 2120	Integrated Organic Chemistry and Biochemistry ³	3
NUTR 2110	Human Nutrition ³	3
SOCI 1110G	Introduction to Sociology ³	3
Major Requirements		
Technical Requiremen	ts ⁴	
DHYG 110	Preclinical Dental Hygiene	3
DHYG 112	Preclinical Dental Hygiene Lab	3
DHYG 114	Oral Histology and Embryology	2
DHYG 116	Head and Neck Anatomy	3
DHYG 117	Dental Anatomy	2
DHYG 118	Dental Radiology	3

DHYG 120	Dental Hygiene Theory I	3
DHYG 122	Clinical Dental Hygiene I	3
DHYG 124	General and Oral Pathology	3
DHYG 126	Periodontology	3
DHYG 132	Clinical Dental Hygiene II	2
DHYG 134	Dental Materials	3
DHYG 210	Dental Hygiene Theory III	2
DHYG 212	Clinical Dental Hygiene III	4
DHYG 214	Dental Pharmacology	3
DHYG 215	Medical and Dental Emergencies	2
DHYG 217	Research Methodology	2
DHYG 218	Pain and Anxiety Management	2
DHYG 219	Pain and Anxiety Management Clinical	1
DHYG 220	Dental Hygiene Theory IV	3
DHYG 222	Clinical Dental Hygiene IV	4
DHYG 224	Principles of Practice	2
DHYG 225	Dental Public Health Education	3
Total Credits		99

- Each course selected must be from a different area and students cannot take multiple courses in the same area.
- See the <u>General Education</u> (p. 52) section of the catalog for a full list of courses.
- Courses are identical to those offered at New Mexico State University Las Cruces (main) Campus.
- All DHYG classes are restricted to students who have been accepted into the Dental Hygiene program.

(99 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must earn a final grade of C- or better in ENGL 1110G Composition I and MATH 1220G College Algebra per DACC guidelines; however, the Dental Hygiene program strongly recommends students earn a C or better in those courses. Students must earn a C or better in all other required General Education and Core Requirements. In addition, students admitted to the program must receive a final grade of C (77%) or higher to remain in the program. Clinical courses have additional requirements that must be met in addition to the grade of C (77%).

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 99 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

All General Education and Core Requirements must be met before formally applying to the program (approximately 25 credits).

	Course	litle	Credits
	Semester 1		
	FALL		
Area I: Communications - English Composition Level 1			4
	ENGL 1110G	Composition I	

Area II: Mathematics		3
MATH 1220G	College Algebra	
Area III: Laboratory S	ciences	4
CHEM 1120G	Introduction to Chemistry Lecture and Laboratory (non majors)	
BIOL 2210	Human Anatomy and Physiology I for the Health Sciences	4
	Credits	15
Semester 2		
SPRING	B	
BIOL 2110G & BIOL 2110L	Principles of Biology: Cellular and Molecular Biology and Principles of Biology: Cellular and Molecular Biology Laboratory	4
BIOL 2225	Human Anatomy and Physiology II	4
CHEM 2120	Integrated Organic Chemistry and Biochemistry	3
NUTR 2110	Human Nutrition	3
	Credits	14
Semester 3		
SUMMER		
General Education El Communications	ective - Area I: Communications - Oral	3
COMM 1115G or COMM 1130	Introduction to Communication OG or Public Speaking	
Area IV: Social/Behav	vioral Sciences	6
PSYC 1110G	Introduction to Psychology	
SOCI 1110G	Introduction to Sociology	
	Credits	9
Semester 4		
FALL		
DHYG 110	Preclinical Dental Hygiene	3
DHYG 112	Preclinical Dental Hygiene Lab	3
DHYG 114	Oral Histology and Embryology	2
DHYG 116	Head and Neck Anatomy	3
DHYG 117	Dental Anatomy	2
DHYG 118	Dental Radiology	3
Semester 5	Credits	16
SPRING		
DHYG 120	Dental Hygiene Theory I	3
DHYG 122	Clinical Dental Hygiene I	3
DHYG 124	General and Oral Pathology	3
DHYG 126	Periodontology	3
DHYG 134	Dental Materials	3
	Credits	15
Semester 6		
SUMMER		
DHYG 132	Clinical Dental Hygiene II	2
DHYG 218	Pain and Anxiety Management	2
DHYG 219	Pain and Anxiety Management Clinical	1
Semester 7	Credits	5
FALL		
DHYG 210	Dental Hygiene Theory III	2
DHYG 212	Clinical Dental Hygiene III	4
DHYG 214	Dental Pharmacology	3
DHYG 215	Medical and Dental Emergencies	2

Course

DHYG 217	Research Methodology	2
	Credits	13
Semester 8		
SPRING		
DHYG 220	Dental Hygiene Theory IV	3
DHYG 222	Clinical Dental Hygiene IV	4
DHYG 224	Principles of Practice	2
DHYG 225	Dental Public Health Education	3
	Credits	12
	Total Credits	99

DACC-UNM BSDH Degree - Total Credits Required - 128 cr.

Please meet with your DACC Dental Hygiene Advisor for more information.

Title

Note: Students must earn a final grade of C or better in all general education and core requirements. Students must receive a final grade of C (77%) or better in all other courses including the UNM courses in order to remain in the program.

Credits

Semester 1		
CHEM 1120G	Introduction to Chemistry Lecture and Laboratory (non majors) *	
ENGL 1110G	Composition I (UNM ENGL 1120 - Composition II (3 credits)) *	4
MATH 1220G	College Algebra *	3
BIOL 2210	Human Anatomy and Physiology I for the Health Sciences	4
Semester 2	Credits	15
CHEM 2120	Integrated Organic Chemistry and Biochemistry	3
BIOL 2225	Human Anatomy and Physiology II	4
BIOL 2310 & 2310L	Microbiology and Microbiology Lab	4
NUTR 2110	Human Nutrition *	3
UNM Curriculum - For	reign Language (Area 6) (3 credits) *	
	Credits	14
Semester 3		
SUMMER		
COMM 1115G or COMM 1130G	Introduction to Communication * or Public Speaking	3
SOCI 1110G	Introduction to Sociology *	3
PSYC 1110G	Introduction to Psychology *	3
	Credits	9
Semester 4		
DHYG 110	Preclinical Dental Hygiene	3
DHYG 112	Preclinical Dental Hygiene Lab	3
DHYG 114	Oral Histology and Embryology	2
DHYG 116	Head and Neck Anatomy	3
DHYG 117	Dental Anatomy	2
DHYG 118	Dental Radiology	3
	Credits	16
Semester 5		
DHYG 120	Dental Hygiene Theory I	3
DHYG 122	Clinical Dental Hygiene I	3

DHYG 124	General and Oral Pathology	3
DHYG 126	Periodontology	3
DHYG 134	Dental Materials	3
UNM DEHY 407 - P	roblems (3 credits) **	
	Credits	15
Semester 6		
SUMMER		
DHYG 132	Clinical Dental Hygiene II	2
DHYG 218	Pain and Anxiety Management	2
DHYG 219	Pain and Anxiety Management Clinical	1
UNM DEHY 440 - E	extramural Experience (3 credits) **	
	Credits	5
Semester 7		
DHYG 210	Dental Hygiene Theory III	2
DHYG 212	Clinical Dental Hygiene III	4
DHYG 214	Dental Pharmacology	3
DHYG 215	Medical and Dental Emergencies (UNM DEHY	2
	335 - Dental Office Emergencies to replace	
	DACC DHYG 215 (2 credits)) **	
DHYG 217	Research Methodology (UNM DEHY 410 Dental	2
	Hygiene Research Methodology to replace	
LINIM Anto and Do	DACC DHYG 217 (3 credits)) ^^	
UNIVI - Arts and De	sign General Education (Area 7) (3 credits) ***	
	Credits	13
Semester 8	D . III	
DHYG 220	Dental Hygiene Theory IV	3
DHYG 222	Clinical Dental Hygiene IV	4
DHYG 224	Principles of Practice (UNM DEHY 407	2
	Problems to replace DACC DHYG 224 (3 credits)) **	
DHYG 225	Dental Public Health Education (UNM DEHY	3
	422 - Dental Public Health to replace DACC	
	DHYG 225 (3 credits)) **	
UNM DEHY 400 - C	Current Issues in Dental Hygiene (3 credits) **	
Semesters 9 & 10 -	SUMMER/FALL	
UNM DEHY 407 - P	roblems (3 credits) **	
UNM DEHY 440 - E	extramural Experience (3 credits) **	
UNM Humanities/Diversity General Education (Area 5) (3 credits) *		
UNM General Education Student Choice Elective (Area 8) (3 credits) **		
	Credits	12
	Total Credits	99

- Course can be taken at UNM or DACC, must meet UNM General Education Requirement if taken at DACC (please use transfer equivalency tables to determine articulation).
- ** UNM course, satisfying UNM 30 hour residency requirement. Course must be taken at UNM.

Diagnostic Medical Sonography

Information on requirements, forms, and deadlines for applications are available on our website at https://dacc.nmsu.edu/dms/. You can also find information at the Health Sciences Division Office (room DAHL 190), or by calling (575) 527-7630.

Associate of Applied Science Degree

Certificate of Completion

The Doña Ana Community College Diagnostic Medical Sonography (DMS) Program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP) upon the recommendation of the Joint Review Committee on Education in Diagnostic Medical Sonography (JRC-DMS). The program's assessment and outcome report can be found on the following https://dacc.nmsu.edu/dms/program-outcomes-assessment-reports/

Sonography is an allied health specialty that uses high-frequency sound waves (ultrasound) to image many structures in the body. Sonographers function as members of the healthcare team by providing and evaluating high quality images that aid physicians in the diagnosis and treatment of their patients. Sonographers are highly motivated, independent, critical thinkers who enjoy one-on-one patient interaction.

Employment opportunities are available in a variety of settings, such as hospitals, physicians' offices, and veterinarian practices. There are also opportunities in sales, education, management, research, marketing, and product development. Because job prospects in the Las Cruces—El Paso area occasionally are limited, it may be necessary to conduct a wider job search.

Training involves a combination of academic courses and a clinical internship in the ultrasound department of area hospitals and clinics where students will gain hands-on training under the supervision of registered diagnostic medical sonographers and will work alongside physicians and other health-care professionals. Coursework covers abdominal and OB-Gyn ultrasound, pediatric sonography, acoustic physics and instrumentation, and introductory vascular technology. Students will participate in lab activities and learn to write case reports and journal article reviews. The clinical sites include facilities in Las Cruces, Alamogordo, Ruidoso, and Silver City, New Mexico, as well as El Paso, Texas.

The Diagnostic Medical Sonography program offers a certificate track for students who already possess an associate degree in a medically related, allied healthcare program or a bachelor's degree in a related field. The associate degree track is designed for those who do not meet the entrance requirements for the certificate-track program. Once accepted into the Diagnostic Medical Sonography program the curriculum for certificate and associate degree pathways is identical .

Students in the Diagnostic Medical Sonography program are required to complete and pass a variety of background/screening measures that include a security background check, FBI fingerprinting and drug screening, in order to participate in the clinical education portion of the program. Past criminal violations may prevent a student from completing the program and gaining employment in the field.

Students who satisfy program requirements are qualified to apply for national certification examinations in the specialty areas of Abdominal and OB/GYN Sonography. These examinations are administered by the American Registry of Diagnostic Medical Sonography (ARDMS) and/or the American Registry of Radiologic Technologists (ARRT). Licensing requirements vary by state; New Mexico requires sonographers to obtain a state license. Continuing education beyond graduation is required to maintain credentials earned by the ARDMS and ARRT; and for maintaining state license in New Mexico.

Required Physical and Cognitive Skills

Sonography students must be able to do the following:

- 1. Read, write and communicate effectively in English.
- Possess emotional and physical health sufficient to meet the demands of the profession.
- 3. Position, move, and lift patients in wheelchairs and stretchers.
- 4. Maintain prolonged arm positions necessary for scanning.
- 5. Position and move ultrasound equipment on wheels (up to 500 lbs.)
- 6. Effectively operate sonographic equipment.
- 7. Evaluate sonograms, acquiring appropriate diagnostic information.
- Integrate diagnostic sonograms, laboratory results, patient histories and medical records, and adapt sonographic examinations as necessary.
- 9. Use independent judgment to acquire the optimal diagnostic sonographic information in each examination performed.
- 10. Evaluate, synthesize, and communicate diagnostic information to be used by the attending physician.
- Communicate effectively with the patient and healthcare team, recognizing the special nature of sonographic exams and patients' needs.
- 12. Establish and maintain effective working relationships with the public and healthcare team.
- 13. Follow established departmental procedures.
- 14. Work efficiently and cope with emergency situations.

Special Admissions Criteria for Certificate Track

This is a limited-entry program accepting students only in the fall semester. Criteria and factors used in evaluating applicants include the following:

- · Completion of either
 - (a) an associate degree in an allied health program which is medically related and involves human-patient care (proof of current certification in ones' allied health area is required), OR
 - (b) a bachelor's degree in a related field that includes at least one semester of anatomy & physiology.
- Overall GPA of 3.0 or higher
- College-level course in algebra (MATH 1220G College Algebra or equivalent)
- College-level course in general physics or introductory physics for the health sciences or radiographic physics or equivalent.

Course Fees

In addition to tuition, a fee of \$200 is charged for each of the following courses: DMS 170, DMS 180, DMS 270, DMS 280.

Prefix	Title	Credits
DMS 170	Clinical Practicum I	2
DMS 180	Clinical Practicum II	5
DMS 270	Clinical Practicum III	5
DMS 280	Clinical Practicum IV	5

Diagnostic Medical Sonography - Associate of Applied Science (p. 202)

Diagnostic Medical Sonography - Certificate of Completion (p. 204)

DMS 100. Introduction to Clinical Practicum 1 Credit (1)

Introduction to working in the medical environment. Includes preparation for clinical internship and observation hours in the ultrasound department. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DMS 101. Introduction Sonography/Patient Care 2 Credits (2)

Introduction to the careers in sonography, terminology, medical ethics, scanning planes, applications of ultrasound, professional standards and patient care. May be repeated up to 2 credits. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DMS 116. Vascular Technology I

2 Credits (2)

Review of basic ultrasound physics and principles, peripheral vascular anatomy, hemodynamics, Doppler evaluation, peripheral vascular scanning techniques, physiologic testing and the carotid arteries and the peripheral vascular system. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DMS 116 L. Vascular Technology I Lab 1 Credit (2P)

Includes protocol development, scanning techniques, recognition of

anatomical relationships and the normal ultrasound appearance of the carotid arteries and peripheral vasculature utilizing real-time sonographic equipment including Doppler. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DMS 130. Pelvic Sonography 1 Credit (1)

Includes the anatomy, sectional anatomy and normal physiology of the pelvic structures; including the uterus, ovaries, prostate, pelvic muscles, lower GI, appendix and vessels as well as scanning techniques, sonographic appearance and Doppler evaluation of the pelvis. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DMS 130 L. Pelvic Sonography Lab 1 Credit (2P)

Includes protocol development, scanning techniques, recognition of anatomical relationships and the normal ultrasound appearance of the pelvic structures including the uterus, ovaries, prostate, lower gastrointestinal system, appendix and pelvic muscles utilizing real-time sonographic equipment including Doppler. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DMS 140. Abdominal Sonography

3 Credits (3)

Includes the anatomy, sectional anatomy and normal physiology of prevertebral vessels, liver, biliary system, pancreas, upper gastrointestinal system, kidneys, adrenals, and spleen as well as scanning techniques, sonographic appearance and Doppler evaluation of the deep abdominal organs. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DMS 140 L. Abdominal Sonography Lab 1 Credit (4P)

Includes protocol development, scanning techniques, recognition of anatomical relationships and the normal ultrasound appearance of prevertebral vessels, liver, biliary system, pancreas, upper gastrointestinal system, kidneys and spleen utilizing real-time sonographic equipment including Doppler. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DMS 150. Sonographic Principles and Instrumentation I 1 Credit (1)

Includes the fundamental properties and mathematical relationships between variables of wave parameters, acoustic variables, attenuation, pulsed wave operation, transducers, system operation, Doppler, and artifacts utilizing real-time sonographic equipment. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DMS 160. 1st Trimester Obstetric Sonography 1 Credit (1)

Includes the embryology, anatomy, sectional anatomy, normal physiology, biometrics, assessment, and sonographic appearance of the 1st trimester fetus, placenta, uterus and adnexa as well as scanning techniques according to recognized protocols. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DMS 165. 2nd/3rd Trimester Obstetric Sonography 1 Credit (1)

Includes the anatomy, sectional anatomy, normal physiology, biometrics, assessment, and sonographic appearance of the 2nd and 3rd trimester fetus, placenta, uterus, and adnexa as well as scanning techniques according to recognized protocols. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DMS 170. Clinical Practicum I 2 Credits (8-10P)

Development of technical and professional aspects of diagnostic ultrasound in a hospital or clinical setting at the developmental level. Ongoing reinforcement and broadening of knowledge base related to hospital procedures and policies. Continued observation, assistance and performance of patient care and sonographic duties under direct supervision. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DMS 180. Clinical Practicum II 5 Credits (30P)

Development of technical and professional aspects of diagnostic ultrasound in a hospital or clinical setting at the beginner level. Ongoing reinforcement and broadening of knowledge base related to hospital procedures and policies. Continue observation, assistance and performance of patient care and sonographic duties under direct supervision. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DMS 201. Applied Sonographic Procedures 1 Credit (8P)

Advances scanning skills, system optimization, anatomic recognition of abdominal and pelvic structures utilizing real-time sonographic equipment including Doppler. Includes sonographic evaluation of the first trimester pregnancy and normal fetus. Restricted to: DMS majors. Restricted to Las Cruces campus only.

DMS 216. Vascular Technology II 2 Credits (2)

Includes the pathology and pathophysiology of the vascular system, scanning techniques, clinical presentation, ultrasound appearance and Doppler evaluation seen with pathological conditions of the carotid arteries, deep and peripheral vascular systems. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DMS 216 L. Vascular Technology II Lab 1 Credit (2P)

Includes progressive development of skills following recognized protocols, scanning techniques, recognition of anatomical relationships with differentiation of normal and abnormal ultrasound appearance of the carotid arteries, deep and peripheral vascular systems utilizing real-time sonographic equipment including Doppler. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DMS 226. Sonographic Case Studies I 1 Credit (1)

Includes integration of didactic knowledge, clinical presentation, laboratory values, sonographic appearance and related medical imaging of a variety of pathological conditions through a variety of case analysis and presentations. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DMS 227. Sonographic Case Studies II 1 Credit (1)

Continuation of DMS 226, integration of didactic knowledge, clinical presentation, laboratory values, sonographic appearance and related medical imaging of a variety of pathological conditions through a variety of case analysis and presentations. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DMS 230. Gynecologic Pathology

2 Credits (2)

Includes the pathology and pathophysiology of the female reproductive system, scanning techniques, clinical presentation, ultrasound appearance and Doppler evaluation seen with pathological conditions of the uterus, ovaries, and adnexa. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DMS 240. Abdominal Pathology I 2 Credits (2)

Includes the pathology and pathophysiology of abdominal structures of the prevertebral vessels, liver, biliary system, pancreas, spleen and gastrointestinal system; scanning techniques, ultrasound appearance, clinical presentation and Doppler evaluation seen with pathological conditions. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DMS 245. Abdominal Pathology II

2 Credits (2)

Includes the pathology and pathophysiology of abdominal structures of the genitourinary system, spleen, retroperitoneum, adrenal glands, abdominal wall and prostate; scanning techniques, ultrasound appearance, clinical presentation and Doppler evaluation seen with pathological conditions. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DMS 248. Pediatric Sonography

2 Credits (2)

Includes the anatomy of the brain, skull, spine, hips, and normal developmental changes as well as pathology and pathophysiology of specific conditions that affect the premature infant, newborn and pediatric population across a variety of body systems. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DMS 250. Sonographic Principles and Instrumentation II 3 Credits (3)

Includes properties of sound and its use in diagnostic imaging, artifacts, system operation, Doppler, basic hemodynamics, image optimization, bio effects, quality assurance, and new technologies in ultrasound imaging. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DMS 255. Vascular Physics

2 Credits (2)

Includes a review of sound properties and its use in diagnostic imaging, artifacts, system operation, Doppler, image optimization, bio effects, quality assurance, and in-depth application of fluid properties and hemodynamics in vascular ultrasound imaging. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DMS 260. High Risk Obstetric Sonography 3 Credits (3)

Includes congenital malformations of the developing fetus, high risk pregnancies, multiple gestation, maternal conditions and invasive procedures. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DMS 270. Clinical Practicum III 5 Credits (20P)

Continued development of technical and professional aspects of diagnostic ultrasound in a hospital or clinical setting at an intermediate level. Ongoing reinforcement and broadening of knowledge base related to hospital procedures and policies. Continued observation, assistance and performance of patient care and sonographic duties under limited supervision. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DMS 280. Clinical Practicum IV 5 Credits (20P)

Application of technical and professional aspects of diagnostic ultrasound in a hospital or clinical setting at a proficient level. Ongoing reinforcement and broadening of knowledge base related to hospital procedures and policies. Continued observation, assistance and performance of patient care and sonographic duties under limited supervision. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DMS 290. Small Parts & Superficial Structures 2 Credits (2)

Includes anatomy, pathology and pathophysiology, protocol development, scanning techniques, recognition of anatomical structures and the normal and pathological ultrasound appearance of the breast, thyroid, neck, scrotum, non-cardiac chest and musculoskeletal ultrasound. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DMS 291. Registry Preparation: OB/GYN 1 Credit (1)

Registry preparation mock examinations over materials covered in Obstetric and Gynecological ultrasound. Students must pass this course with a 74% or better OR pass national certification in OB/GYN Sonography. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DMS 292. Registry Preparation: Abdomen 1 Credit (1)

Registry preparation mock examinations over materials covered in abdominal ultrasound including small parts and superficial structures. Students must pass this course with a 74% or better OR pass ARDMS national certification exam in Abdominal Sonography. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DMS 293. Registry Preparation: Vascular 1 Credit (1)

Registry preparation mock examinations over materials covered in vascular ultrasound. Students must pass this course with a 74% or better OR pass national certification in Vascular Technology. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

Name: Darla Matthew BAS, RT, RDMS, Program Director

Office Location: DAHL 190 Phone: (575) 528-7047

Website: https://dacc.nmsu.edu/dms/

Diagnostic Medical Sonography -Associate of Applied Science

Doña Ana Community College 2020-21 Catalog

Associate Degree Track

This is a limited-entry program accepting students only in the fall semester. Criteria and factors used in evaluating applicants include the following:

- · High school diploma or GED
- Completion of all *pre-requisites with an overall GPA of 3.0 or higher
 - · Courses 'In-Progress' at the time of application are accepted
- · County of residence

The following courses will receive application points as follows: A = 10 pts, B = 5 pts, C = 2 pts

Note:

requirements.

- *Students should receive a B or better in CHEM and BIOL prerequisites to be a viable candidate for the DMS program.
- There are restrictions on repeating courses with a grade of C or lower. See program director for details.

(Associate Degree 74 credits)

NOTE: Application Deadline is April 1

NOTE: Students must earn a final grade of C- or better in all required DMS courses/Technical Requirements and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 74 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
General Education	on	
Select one course 12-14 credits	e from four of the following six content areas for a tota	al of 12-14
J .	ires courses from Areas I, II, III, and IV; students do additional courses to complete the General Educat	

	Area I: Communicat	ions - English Composition Level 1	
	ENGL 1110G	Composition I (DMS Program Prerequisite) 1	
	Area II: Mathematic	s	
	MATH 1220G	College Algebra (DMS Program Prerequisite)	
	Area III: Laboratory	Sciences	
	CHEM 1120G	Introduction to Chemistry Lecture and Laboratory (non majors) (DMS Program Prerequisite) ^{1,2}	
	or CHEM 1215G	General Chemistry I Lecture and Laboratory for STEM Majors	
	Area IV: Social/Beha	avioral Sciences	
	PSYC 1110G	Introduction to Psychology ^{1,3}	
	or SOCI 2310G	Contemporary Social Problems	
G	General Education Elect	ive - Choose one from the following	3
	ENGL 2210G	Professional & Technical Communication 1,3	
	COMM 1130G	Public Speaking ^{1,3}	
	COMM 1115G	Introduction to Communication ^{1,3}	
C	ore Requirements		
В	SIOL 2210	Human Anatomy and Physiology I for the Health Sciences (DMS Program Prerequisite) 1,2	4
C	choose one from the fo	ollowing:	3
	PHYS 1230G	Algebra-Based Physics I (DMS Program Prerequisite) ¹	
	PHYS 1112	Introductory Physics for the Health Sciences (DMS Program Prerequisite) ¹	
	RADT 105	Radiographic Physics and Equipment (DMS Program Prerequisite) ¹	
F	Related Requirements		

The following courses are not required for the Associates degree; however, the courses will strengthen study skills or increase knowledge that will be beneficial as a sonography student. Courses completed or are in progress at the time of application will receive bonus points toward the application as follows:

BUNUS PUINTS. A - T	υ μις, Β – 5 μις, σ – 2 μις
BIOL 2225	Human Anatomy and Physiology II ¹
BIOL 2505	Pathophysiology ¹
BONUS POINTS: A = 5	pts, B = 3 pts
MATH 1350G	Introduction to Statistics ¹
AHS 120	Medical Terminology
or HIT 150	Introduction to Medical Terminology
BCIS 1110	Introduction to Information Systems

Major Requirements

Technical Requirements		
DMS 100	Introduction to Clinical Practicum	1
DMS 101	Introduction Sonography/Patient Care	2
DMS 130	Pelvic Sonography	1
DMS 130 L	Pelvic Sonography Lab	1
DMS 140	Abdominal Sonography	3
DMS 140 L	Abdominal Sonography Lab	1
DMS 150	Sonographic Principles and Instrumentation I	1
DMS 160	1st Trimester Obstetric Sonography	1
DMS 165	2nd/3rd Trimester Obstetric Sonography	1
DMS 170	Clinical Practicum I	2
DMS 180	Clinical Practicum II	5
DMS 201	Applied Sonographic Procedures	1
DMS 226	Sonographic Case Studies I	1
DMS 227	Sonographic Case Studies II	1
DMS 230	Gynecologic Pathology	2

DMS 240	Abdominal Pathology I	2
DMS 245	Abdominal Pathology II	2
DMS 248	Pediatric Sonography	2
DMS 250	Sonographic Principles and Instrumentation II	3
DMS 260	High Risk Obstetric Sonography	3
DMS 290	Small Parts & Superficial Structures	2
DMS 270	Clinical Practicum III	5
DMS 280	Clinical Practicum IV	5
DMS 291	Registry Preparation: OB/GYN	1
DMS 292	Registry Preparation: Abdomen	1
Total Credits		74

- Courses are identical to those offered at New Mexico State University Las Cruces (main) Campus.
- Students should receive a B or better in CHEM and BIOL prerequisites to be a viable candidate for the DMS program.
- These courses are required for the associate degree but are not prerequisites. Courses that are completed or are in progress at the time of application to the DMS program will receive bonus points toward the application as follows: A = 5 pts, B = 3 pts.

Selection Criteria

Completion of pre-requisite courses DOES NOT guarantee acceptance into the Diagnostic Medical Sonography Program. Selection for the program utilizes a point system as well as a comprehensive evaluation of the student's overall strengths related to the essential qualifications, competencies, and functions of the professional diagnostic medical sonographer.

Selection for acceptance incorporates two phases.

Phase I

Phase I points are awarded in pre-requisite and related courses as indicated above as well as scoring on the ATI TEAS exam.

Relevant field experience and/or professional credentials may qualify for additional bonus points. See program website for details https://dacc.nmsu.edu/dms/diagnostic-sonography-program-admission-process/

ATI TEAS Exam

The program utilizes the most current version of the TEAS exam. Candidates must achieve an individual total score of at least 60% to remain a candidate of the DMS program. Scores are valid for 5 years with a restriction of 1 attempt per year allowed by the program. The program considers the applicants' ranking adjusted to the AH CATEGORY R when awarding TEAS points for overall performance as well as performance in subcategories of reading, math, science, and language.

Phase II

Phase II is for applicants who have scored very well in Phase I and on the TEAS exam. Phase II is by invitation only and is conducted in an interview format to identify personal strengths and/or weaknesses related to essential qualifications, competencies, and functions for professional diagnostic medical sonographers.

Application packets are available at the program orientation meetings. See website for orientation schedule https://dacc.nmsu.edu/dms/ program-orientation/

Course Fees

In addition to tuition, a fee of \$200 is charged for each of the following courses: DMS 170, DMS 180, DMS 270 and DMS 280.

Prefix	Title	Credits
DMS 170	Clinical Practicum I	2
DMS 180	Clinical Practicum II	5
DMS 270	Clinical Practicum III	5
DMS 280	Clinical Practicum IV	5

(74 credits)

NOTE: Application Deadline is April 1

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must earn a final grade of C- or better in all required DMS courses/Technical Requirements and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 74 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course	Title	Credits
Semester 1		
Area I: Communications - English Composition Level 1		
ENGL 1110G	Composition I	
Area II: Mathematics		3
MATH 1220G	College Algebra	
Area III: Laboratory Sci	ences	4
CHEM 1120G or CHEM 1215G	Introduction to Chemistry Lecture and Laboratory (non majors) or General Chemistry I Lecture and Laboratory for STEM Majors	
Area IV: Social/Behavio	oral Sciences	3
PSYC 1110G or SOCI 1110G	Introduction to Psychology or Introduction to Sociology	
BIOL 2210	Human Anatomy and Physiology I for the Health Sciences	4
	Credits	18
Semester 2		
SUMMER		
General Education Elec	ctive - Choose one from the following:	3
COMM 1115G	Introduction to Communication	
COMM 1130G	Public Speaking	
ENGL 2210G	Professional & Technical Communication	
	Credits	3
Semester 3		
Choose one from the fo	ollowing:	3
PHYS 1230G	Algebra-Based Physics I	
PHYS 1112	Introductory Physics for the Health Sciences 1	

RADT 105	Radiographic Physics and Equipment ¹	
	Credits	3
Semester 4		
DMS 100	Introduction to Clinical Practicum	1
DMS 101	Introduction Sonography/Patient Care	2
DMS 130	Pelvic Sonography	1
DMS 130 L	Pelvic Sonography Lab	1
DMS 140	Abdominal Sonography	3
DMS 140 L	Abdominal Sonography Lab	1
DMS 150	Sonographic Principles and Instrumentation I	1
	Credits	10
Semester 5		
DMS 160	1st Trimester Obstetric Sonography	1
DMS 165	2nd/3rd Trimester Obstetric Sonography	1
DMS 170	Clinical Practicum I 2	2
DMS 201	Applied Sonographic Procedures	1
DMS 230	Gynecologic Pathology	2
DMS 250	Sonographic Principles and Instrumentation II	3
	Credits	10
Semester 6		
SUMMER REQUIRED		
DMS 180	Clinical Practicum II 2	5
	Credits	5
Semester 7		
DMS 226	Sonographic Case Studies I	1
DMS 240	Abdominal Pathology I	2
DMS 245	Abdominal Pathology II	2
DMS 270	Clinical Practicum III 2	5
DMS 290	Small Parts & Superficial Structures	2
	Credits	12
Semester 8		
DMS 227	Sonographic Case Studies II	1
DMS 248	Pediatric Sonography	2
DMS 260	High Risk Obstetric Sonography	3
DMS 280	Clinical Practicum IV ²	5
DMS 291	Registry Preparation: OB/GYN	1
DMS 292	Registry Preparation: Abdomen	1
	Credits	13
	Total Credits	74

Course Fees

In addition to tuition, a fee of \$200 is charged for each of the following courses: DMS 170, DMS 180, DMS 270 and DMS 280.

Prefix	Title	Credits
DMS 170	Clinical Practicum I	2
DMS 180	Clinical Practicum II	5
DMS 270	Clinical Practicum III	5
DMS 280	Clinical Practicum IV	5

Diagnostic Medical Sonography - Certificate of Completion

Doña Ana Community College 2020-21 Catalog

Special Admissions Criteria for Certificate Track

This is a limited-entry program accepting students only in the fall semester. Criteria and factors used in evaluating applicants include the following:

- · Completion of either
 - (a) an associate degree in an allied health program which is medically related and involves human-patient care (proof of current certification in ones' allied health area is required), OR
 - (b) a bachelor's degree in a related field that includes at least one semester of anatomy & physiology.
- · Overall GPA of 3.0 or higher
- College-level course in algebra (MATH 1220G College Algebra or equivalent)
- College-level course in general physics or radiographic physics or introductory physics for the health sciences or equivalent.

(Certificate 56 credits)

NOTE: All of the courses in this program relate to each other and to the clinical internship and cannot be taken individually.

NOTE: Students must earn a final grade of C- or better in all required DMS courses/Technical Requirements and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University certificate requirements to total at least 56 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
Core Requirements		
MATH 1220G	College Algebra	3
PHYS 1230G	Algebra-Based Physics I ^{1, 2}	3
or PHYS 1112	Introductory Physics for the Health Sciences	
or RADT 105	Radiographic Physics and Equipment	
Technical Requireme	ents	
DMS 100	Introduction to Clinical Practicum	1
DMS 101	Introduction Sonography/Patient Care	2
DMS 130	Pelvic Sonography	1
DMS 130 L	Pelvic Sonography Lab	1
DMS 140	Abdominal Sonography	3
DMS 140 L	Abdominal Sonography Lab	1
DMS 150	Sonographic Principles and Instrumentation I	1
DMS 160	1st Trimester Obstetric Sonography	1
DMS 165	2nd/3rd Trimester Obstetric Sonography	1
DMS 170	Clinical Practicum I	2
DMS 180	Clinical Practicum II	5
DMS 201	Applied Sonographic Procedures	1
DMS 226	Sonographic Case Studies I	1
DMS 227	Sonographic Case Studies II	1
DMS 230	Gynecologic Pathology	2
DMS 240	Abdominal Pathology I	2
DMS 245	Abdominal Pathology II	2
DMS 248	Pediatric Sonography	2

DMS 250	Sonographic Principles and Instrumentation II	3
DMS 260	High Risk Obstetric Sonography	3
DMS 290	Small Parts & Superficial Structures	2
DMS 270	Clinical Practicum III	5
DMS 280	Clinical Practicum IV	5
DMS 291	Registry Preparation: OB/GYN	1
DMS 292	Registry Preparation: Abdomen	1
Total Credits		56

- Courses are identical to those offered at New Mexico State University Las Cruces (main) Campus.
- While RADT 105 and PHYS 1112 meet program requirements, they do not meet the NM General Education Area III: Laboratory Sciences requirement.

Course Fees

In addition to tuition, a fee of \$200 is charged for each of the following courses: DMS 170, DMS 180, DMS 270, DMS 280.

Prefix	Title	Credits
DMS 170	Clinical Practicum I	2
DMS 180	Clinical Practicum II	5
DMS 270	Clinical Practicum III	5
DMS 280	Clinical Practicum IV	5

Special Admissions Criteria for Certificate Track

This is a limited-entry program accepting students only in the fall semester. Criteria and factors used in evaluating applicants include the following:

- · Completion of either
 - (a) an associate degree in an allied health program which is medically related and involves human-patient care (proof of current certification in ones' allied health area is required), OR
 - (b) a bachelor's degree in a related field that includes at least one semester of anatomy & physiology.
- · Overall GPA of 3.0 or higher
- College-level course in algebra (MATH 1220G College Algebra or equivalent)
- College-level course in general physics or radiographic physics or introductory physics for the health sciences or equivalent.

(Certificate 56 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: All of the courses in this program relate to each other and to the clinical internship and cannot be taken individually.

NOTE: Students must earn a final grade of C- or better in all required DMS courses/Technical Requirements and achieve a cumulative grade-point

average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University certificate requirements to total at least 56 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course	Title	Credits
Semester 1 Area II: Mathematics		3
MATH 1220G	College Algebra	3
Choose one from the fo	College Algebra	3
PHYS 1230G	Algebra-Based Physics I	3
PHYS 1112	Introductory Physics for the Health Sciences	
RADT 105	Radiographic Physics and Equipment	
ומאון ומאון	Credits	6
Semester 2	oreano	Ü
DMS 100	Introduction to Clinical Practicum	1
DMS 101	Introduction Sonography/Patient Care	2
DMS 130	Pelvic Sonography	1
DMS 130 L	Pelvic Sonography Lab	1
DMS 140	Abdominal Sonography	3
DMS 140 L	Abdominal Sonography Abdominal Sonography Lab	1
DMS 150		1
DIVIS 130	Sonographic Principles and Instrumentation I	
	Credits	10
Semester 3		
DMS 160	1st Trimester Obstetric Sonography	1
DMS 165	2nd/3rd Trimester Obstetric Sonography	1
DMS 170	Clinical Practicum I	2
DMS 201	Applied Sonographic Procedures	1
DMS 230	Gynecologic Pathology	2
DMS 250	Sonographic Principles and Instrumentation II	3
	Credits	10
Semester 4		
SUMMER		
DMS 180	Clinical Practicum II	5
	Credits	5
Semester 5		
DMS 226	Sonographic Case Studies I	1
DMS 240	Abdominal Pathology I	2
DMS 245	Abdominal Pathology II	2
DMS 270	Clinical Practicum III	5
DMS 290	Small Parts & Superficial Structures	2
	Credits	12
Semester 6		
DMS 227	Sonographic Case Studies II	1
DMS 248	Pediatric Sonography	2
DMS 260	High Risk Obstetric Sonography	3
DMS 280	Clinical Practicum IV	5
DMS 291	Registry Preparation: OB/GYN	1
DMS 292	Registry Preparation: Abdomen	1
	Credits	13
	Total Credits	56
		00

Course Fees

In addition to tuition, a fee of \$200 is charged for each of the following courses: DMS 170, DMS 180, DMS 270 and DMS 280.

Prefix	Title	Credits
DMS 170	Clinical Practicum I	2
DMS 180	Clinical Practicum II	5
DMS 270	Clinical Practicum III	5
DMS 280	Clinical Practicum IV	5

Drafting and Design Technologies

Associate of Applied Science Degrees

- · Architectural Technology
- Civil/Survey Technology
- · Mechanical Drafting and Solid Modeling
- · Pre-Architecture

Certificates of Completion

- · Architectural Technology
- · Civil/Survey Technology
- · Drafting and Graphics
- · Geographical Information Systems
- · Mechanical Drafting and Solid Modeling
- · Pre-Architecture

The Drafting and Design Technologies Program provides students with a strong foundation in Computer-Aided Drafting (CAD), Architecture/Design, and relevant theory and concepts necessary to become successful in various related fields. These fields include

- · Architecture.
- · Architectural Technology,
- · Civil/Survey Technology,and
- · Mechanical Drafting and Solid Modeling.

Excellent job and salary opportunities are available nationwide for Drafters/CAD specialists, technicians, architects, and engineers. With its rapid growth, southern New Mexico also has strong employment possibilities for graduates of the Drafting and Design Technologies Program. Students with previous related training and/or formal education may qualify for more advanced positions, such as construction inspector or supervisor, contractor, or senior drafter.

Within the Drafting and Design Technologies Program are four courses of study leading to associate of applied science degrees. These allow students to tailor their studies to their own interests and career aspirations.

- Architectural Technology: Architectural 2D and 3D drafting, residential design, construction estimating, construction technology, architectural rendering and animation, green building (LEED), and Building Information Modeling (BIM)
- Civil/Survey Technology: Civil engineering drafting, surveying fundamentals, roadway construction drafting, land development drafting, and GIS training

- Mechanical Drafting and Solid Modeling: Mechanical drafting, machine/ manufacturing fundamentals, basic mechanical design, parametric solid modeling, and animation
- Pre-Architecture: Architectural theory and drawing; design studio/ culture; architectural history; computer applications; introduction to construction principles and construction documents; and presentation techniques.

While pursuing this program, whether taking classes or working in a co-op position, students will be required to perform the same job duties and be able to meet the same physical requirements that they will as a graduate in the field including working at a computer for an extended period of time and the ability to lift 25 to 50 pounds. Courses, as well as careers, in Drafting and Design Technologies will require a person to be able to work at computers, communicate verbally and in writing, and participate in an online environment.

Future students who are still in high school are encouraged to take courses in mathematics, science, English, and drafting. Furthermore, Dual credit opportunities are available for high school students who wish to earn college credit while still in high school. These credits may apply to their high school credit requirements as well as the DACC Drafting and Design Technologies requirements. (For more information, refer to the section titled, "Dual Credit Program (p. 14)," within this catalog.)

Pre-Architecture Program Overview

Students planning to pursue a professional career in architecture may find it more convenient and economically advantageous to begin their studies closer to home. The DACC Pre-Architecture program, which culminates in an associate of applied science degree, consists roughly of the first two years of a standard, bachelor's degree curriculum in architecture. Currently, the most popular transfer universities for DACC Pre-Architecture students are the University of New Mexico and Texas Tech University. Both offer in-state tuition rates and have signed articulation agreements with DACC providing for the smooth and efficient transfer of credits.

However, acceptance into a transfer university's architecture program is not automatic nor is it guaranteed. Students must follow the regular application procedures of the chosen university.

In addition, DACC cannot guarantee placement into a transfer university's architecture program at any particular level, as such matters are totally dependent on how the university in question may evaluate transcripts, portfolios and other required materials against its own acceptance criteria. For example, in order to be accepted at UNM, a final grade of *B*- or better is required in ARCH 1120 Introduction to Architecture and ARCH 1110 Architectural Drawing, and a final grade of *C*- or better is required in all other courses in the DACC Pre-Architecture curriculum.

Potential architecture students should contact a Pre-Architecture advisor at DACC for assistance with course scheduling and transfer procedures (575) 527-7592.

Credit Transfer to Bachelor's Degrees in Engineering Technology or Geomatics at NMSU

The Architectural Technology, Civil/Survey Technology, Surveying Technology, and Mechanical Drafting and Solid Modeling associate degree programs include courses that allow students to earn credits that may be transferable into one of the engineering technology or geomatics

programs offered by NMSU. These courses allow students to maximize the number of credits applicable to an NMSU Engineering Technology or geomatics program, while also making it possible to earn an associate degree for immediate employment in a drafting related field. Students should contact a Drafting and Design Technologies program advisor for the most current information and requirements related to these credit transfer opportunities (575) 527-7592.

Additional Program Information

Students receive training from highly qualified faculty in modern classrooms and drafting and design laboratories equipped with the latest in computers, peripheral equipment, and professional software. The Drafting and Design Technologies program is housed at the DACC East Mesa Campus (see <u>map</u>).

Classes are scheduled during the day and evening hours, as well as during the summer, to serve both full- and part-time students, including local high school students who are participating in the dual credit enrollment program. Courses are available at the various DACC locations, as well as selected high schools in the area.

Students gain professional development and leadership skills through the Drafting and Graphics Association (DAGA) or the American Institute of Architecture Students (AIAS). These student organizations are affiliated with at least one of the following:

- · American Design Drafting Association (ADDA),
- · SkillsUSA,
- · National Association of Home Builders (NAHB), and
- American Institute of Architecture Students (AIAS).

Students actively participate in numerous events and activities. Members also take part in activities sponsored by other professional associations, recruiting at high schools, and participating in community service projects. Students can compete in statewide and nationwide drafting contests sponsored by SkillsUSA and other organizations.

Additional Graduation Requirements

A final grade of *C*- or better is required in all DRFT courses. A final grade of *C*- or better is required in ENGL 1110G Composition I. A final grade of *B*- or better is required in ARCH 1120 Introduction to Architecture and ARCH 1110 Architectural Drawing; in all other ARCT courses, a minimum final grade of *C*- is required.

Architectural Technology - Associate of Applied Science (p. 210)

Civil/Survey Technology - Associate of Applied Science (p. 211)

Mechanical Drafting and Solid Modeling - Associate of Applied Science (p. 212)

Pre-Architecture - Associate of Applied Science (p. 213)

Architectural Technology - Certificate of Completion (p. 215)

<u>Civil/Survey Technology - Certificate of Completion</u> (p. 215)

Drafting and Graphics Technology - Certificate of Completion (p. 216)

Geographical Information Systems - Certificate of Completion (p. 216)

Mechanical Drafting and Solid Modeling - Certificate of Completion (p. 217)

Pre-Architecture - Certificate of Completion (p. 218)

DRFT 100. Introduction to Architecture, Engineering, & Construction 3 Credits (3)

Introduction to and exploration of careers in the fields of architecture, engineering, and construction. Specific fields to include: architecture, civil engineering, mechanical engineering, structural engineering, engineering technology, residential construction, commercial construction, geographical information systems (GIS), surveying, sustainable design, and green building. Crosslisted with: ARCH 1310. Restricted to Community Colleges campuses

DRFT 101. Introduction to Drafting and Design Technologies 1 Credit (1)

Professional and student organizations associated with the Drafting and Design Technologies program, degree requirements, employment skills and work habits, and university and college policies and procedures will be explored. Students will be introduced to the current learning management system and career-readiness certification. Restricted to Community Colleges only.

DRFT 105. Technical Drawing for Industry 3 Credits (2+2P)

Technical sketching, basic CAD, and interpretation of drawings with visualization, speed and accuracy highly emphasized. Areas of focus include various trades such as machine parts, welding, heating and cooling, and general building sketches/plan interpretation.

DRFT 108. Drafting Concepts/Descriptive Geometry 2 Credits (1+2P)

Basic manual drafting skills, sketching, terminology and visualization. Graphical solutions utilizing applied concepts of space, planar, linear and point analyses. Metric and S.I. units introduced.

DRFT 109. Computer Drafting Fundamentals 3 Credits (2+2P)

Introduction to principles and fundamentals of drafting using both manual drawing techniques and computer-aided drafting (CAD) applications. May be repeated up to 3 credits. Crosslisted with: E T 109 and C E 109. Restricted to Community Colleges campuses only.

DRFT 112. Drafting Concepts/Computer Drafting Fundamentals I 4 Credits (2+4P)

Basic drafting skills, terminology, and visualization. Introduction to principles and fundamentals of computer-aided drafting. Same as ${\sf ET106}$.

Prerequisites: OECS 207, OECS 125 or consent of instructor.

DRFT 113. Drafting Concepts/Computer Drafting Fundamentals II 4 Credits (2+4P)

Drafting for mechanical/industrial applications; machine part detailing, assemblies in orthographic, isometric, auxiliary, oblique, and sectional views. Two-dimensional AutoCAD with introduction to 3-D AutoCAD. Same as E T 216. Restricted to: Community Colleges only.

Prerequisite: DRFT 112.

DRFT 114. Introduction to Solid Modeling 3 Credits (2+2P)

2D mechanical drafting and 3D mechanical solid modeling utilizing the latest version of AutoCAD software. Industry dimensioning and annotation standards will be emphasized. 2D multi-view working drawings, 3D solid models, and basic 3D model assemblies will be introduced. Restricted to Community Colleges campuses only. **Prerequisite(s)**: DRFT 109.

DRFT 115. General Construction Safety

3 Credits (3)

Overview of general construction safety related to building, highway and road construction, and surveying field work for entry-level individuals. Students will also have the opportunity to earn a 10-hour construction industry OSHA card. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

DRFT 120. Survey Equipment Fundamentals 2 Credits (2)

Introduces the application and the setup to the following surveying equipment: Automatic Level, Total station, and Global Positioning Systems. Field safety knowledge is required. Restricted to Community Colleges only.

DRFT 124. Introduction to Geometric Dimensioning and Tolerancing 3 Credits (2+2P)

Introduction to geometric dimensioning and tolerancing (GD&T) for the mechanical CAD drafting, solid modeling, mechanical engineering technology, mechanical engineering, and manufacturing industries. Related industry standard finishes and fasteners will also be introduced and explored.

Prerequisite(s)/Corequisite(s): DRFT 114. Restricted to Community Colleges campuses only.

DRFT 130. General Building Codes

3 Credits (2+2P)

Interpretation of the Building Code, local zoning codes, A.D.A. Standards and the Model Energy Code to study construction and design requirements and perform basic plan checking. Restricted to: Community Colleges only.

DRFT 135. Electronics Drafting I

3 Credits (2+2P)

Drafting as it relates to device symbols; wiring, cabling, harness diagrams and assembly drawings; integrated circuits and printed circuit boards; schematic, flow and logic diagrams; industrial controls and electric power fields. Drawings produced using various CAD software packages.

Prerequisites: DRFT 108 and DRFT 109. DRFT 143. Civil Drafting Fundamentals

3 Credits (2+2P)

Introduction to drafting in the field of Civil Engineering. Drawings, projects, and terminologies related to topographic, contour drawings, plan and profiles, and street/highway layout. Crosslisted with: E T 143. Restricted to Community Colleges only.

Prerequisite(s): DRFT 109.

DRFT 151. Construction Principles and Print Reading 3 Credits (2+2P)

Introduction to construction materials, methods, and basic cost estimating and print reading applicable in today's residential, commercial, and public works industry. Instruction by print reading and interpretation, field trips, and actual job-site visits and progress evaluation.

DRFT 153. Survey Drafting Applications

3 Credits (2+2P)

Introduction to drafting in the field of survey engineering. Drawings, projects and terminologies related to Point Data, topography, land/boundary surveys, legal descriptions and plat surveys. Using the current Autodesk software. Crosslisted with: SUR 143. Restricted to: Community Colleges only.

Prerequisite(s): DRFT 109.

DRFT 160. Construction Take-Offs and Estimating 3 Credits (2+2P)

Computing and compiling materials and labor estimates from working drawings using various techniques common in general building construction and in accordance with standard specifications and estimating formats. Use of spreadsheets and estimating software introduced.

Prerequisite: DRFT 151.

DRFT 163. Civil Infrastructure Detailing

3 Credits (2+2P)

Infrastructure detailing related to civil engineering projects including: ponding, roadway, sewer, and storm-water structures; concrete foundations; and related utility details. Restricted to Community Colleges campuses

Prerequisite(s): DRFT 109.

DRFT 164. Intermediate Mechanical Drafting/Solid Modeling 3 Credits (2+2P)

Intermediate 3D mechanical parametric solid modeling and assembly creation utilizing the latest version of Autodesk Inventor software. The creation of 2D working drawings from 3D solid models will be emphasized. Geometric Dimensioning and Tolerancing (GD&T), basic material properties, and industry standard fastening and manufacturing methods will be introduced.

Prerequisite(s)/Corequisite(s): DRFT 114. Restricted to Community Colleges campuses only.

DRFT 165. Introduction to Building Information Modeling 3 Credits (2+2P)

Introduction to Building Information Modeling (BIM) in the development of virtual 3D building models, construction documents, renderings and basic animations related to architectural, structural, and mechanical/electrical/plumbing building components. Utilizes the latest BIM technologies in the integration one, parametric BIM. Restricted to Community Colleges campuses only.

DRFT 176. Solid Modeling, Rendering and Animation 3 Credits (2+2P)

Introduction to three dimensional drafting and solid modeling, rendering and animation for architecture and engineering fields. Material application, mapping, and scene lighting will be introduced. Restricted to: Community Colleges only.

Prerequisite(s): DRFT 109.

DRFT 180. Residential Drafting

3 Credits (2+2P)

Basic residential drafting including, floor plans, foundation plans, sections, roof plans, exterior and interior elevations, and site plans. Applicable residential building and zoning codes, construction methods and materials, adaptable residential design, and drawing and sheet layout for architectural drafting will be introduced. Restricted to Community Colleges campuses only.

Prerequisite(s): DRFT 109.

DRFT 181. Commercial Drafting

3 Credits (2+2P)

Drafting principles, plan coordination, and code analysis applicable in the development of working drawings for commercial, public, and industrial building projects. Students will utilize National Cad Standards, ADA Standards, and will be introduced to modern office practice. May be repeated up to 3 credits. Restricted to Community Colleges campuses **Prerequisite(s):** DRFT 109.

DRFT 190. Finding and Maintaining Employment 2 Credits (2)

Techniques in self-evaluations, resume writing, application completion, job interviewing, and job retention. Exposure to work ethics, employee attitudes, and employer expectations.

DRFT 204. Geographic Information Systems Technology 3 Credits (2+2P)

The use of digital information for which various digitized data creation methods are captured. Users will capture, store, analyze and manage spatially referenced data in a modeled mapping procedure. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

DRFT 214. Advanced Solid Modeling 3 Credits (2+2P)

Advanced 3D mechanical parametric solid modeling and assembly creation utilizing the latest version of Solidworks software. The creation of 2D working drawings from 3D solid models and the creation of 3D models for machining/manufacturing will be emphasized. Geometric Dimensioning and Tolerancing (GD&T), material properties, and industry standard fastening and manufacturing methods will be further explored. **Prerequisite(s)/Corequisite(s):** DRFT 114. Restricted to Community Colleges campuses only.

DRFT 222. Surveying Fundamentals 3 Credits (2+3P)

Theory and practice of geomatics as applied to plane surveying in the areas of linear measurements, angle measurements, area determination, differential and trigonometric leveling, and topographic mapping. Crosslisted with: SUR 222. Restricted to Community Colleges campuses only.

Prerequisite(s): MATH 1250G.

DRFT 230. Building Systems Drafting 3 Credits (2+2P)

Development of working drawings for electrical, plumbing, and HVAC systems, for residential and commercial building through the applications of both 2D Drafting and 3D Building Information Modeling (BIM) techniques. Basics of project setup, National CAD Standards, ADA Standards, modern office practice, code analysis, as well as Sustainability and LEED for new construction. Restricted to: Community Colleges only. **Prerequisite(s):** DRFT 180 or DRFT 181.

DRFT 231. Construction Methods and Equipment 3 Credits (2+2P)

Introduction to methods and equipment utilized in the construction industry including, common construction equipment, equipment utilization, equipment operating costs, site and earthwork, applicable specifications and testing, and related planning and safety considerations. Restricted to Community Colleges campuses only. **Prerequisite(s):** DRFT 151.

DRFT 240. Structural Systems Drafting 3 Credits (2+2P)

Study of foundations, wall systems, floor systems and roof systems in residential, commercial and industrial design/construction. Produce structural drawings including foundation plans, wall and building sections, floor and roof framing plans, shop drawings and details; schedules, materials lists and specifications. Use of various software. May be repeated up to 3 credits.

Prerequisite(s)/Corequisite(s): DRFT 180 or DRFT 181. Restricted to Community Colleges campuses only.

DRFT 242. Roadway Development Drafting 3 Credits (2+2P)

Advanced civil/survey technology and drafting related to roadway development. Emphasis is on relevant terminology, codes/standards, and the production of complex working drawings such as topographical/grading, drainage, master utilities, roadway P P/details/etc., according to agency standards. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): DRFT 143.

DRFT 243. Land Development Drafting

3 Credits (2+2P)

Advanced civil/survey technology and drafting related to land development. Emphasis is on relevant terminology codes/standards, and the production of complex working drawings such as subdivision plats, local utility and drainage plans, construction details roadway P P, etc., according to local development/ agency standards.

Prerequisite: DRFT 143 and DRFT 153.

DRFT 250. Principles of Detailing and Design 3 Credits (2+2P)

Advanced practice in construction documentation in the development and coordination of working drawings & specifications. In particular, will utilize Architectural Graphic Standards, National CAD Standards, and ADA standards to develop detail drawings related to Architectural, Civil, Structural and Building Mechanical systems. Will also be introduced to basic principles, factors, and process of building design such as space planning, site analysis, and basic architectural programming. May be repeated up to 3 credits.

Prerequisite(s)/Corequisite(s): DRFT 180 or DRFT 181. Restricted to Community Colleges campuses only.

DRFT 254. Spatial Data Processing 3 Credits (2+2P)

Utilizes the tools and technologies of GIS, processing volumes of geodata identifying a numerical, coded or listed map. Involves the analysis of spatial data from various diverse applications and place in a descriptive mapping process. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): DRFT 204.

DRFT 255. Independent Study 1-3 Credits (1-3)

Instructor-approved projects in drafting or related topics specific to the student's individual areas of interest and relevant to the drafting and graphics technology curriculum. Consent of instructor required. May be repeated for a maximum of 6 credits.

DRFT 258. Introduction to Infraworks 3 Credits (2+2P)

Introduction to the utilization of Infraworks software for the conceptualization, optimization, and visualization of infrastructure projects in the context of the built and natural environment. Restricted to Community Colleges campuses

Prerequisite(s): DRFT 143.

DRFT 261. Construction Scheduling and Project Management 3 Credits (2+2P)

Introduction to construction scheduling and project management. Restricted to Community Colleges campuses only.

Prerequisite(s): DRFT 161.

DRFT 265. Advanced Building Information Modeling Applications 3 Credits (2+2P)

Advanced applications of Building Information Modeling (BIM) including the creation of, and practice in collaborative work sets, data and design analyses, energy modeling and analysis, preliminary LEED analysis, construction take-offs & estimation, and construction animation, through use of various BIM and related software. Restricted to: Community Colleges only.

Prerequisite(s): DRFT 165.

DRFT 274. GIS Theory and Analysis

3 Credits (2+2P)

Analyzes the hypothesis in which location and spatial data sufficiently quantifies the appropriate statistical methodology. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): DRFT 254.

DRFT 276. Computer Rendering and Animation I 3 Credits (2+2P)

Introduction to technical applications of computer generated renderings and animations for the architecture and engineering fields. 3D models, photo-realistic renderings, and basic animation movie files will be produced utilizing industry standard modeling and animation software.

DRFT 278. Advanced CAD Applications 3 Credits (2+2P)

Introduction to advanced CAD commands, applications, usage techniques, and user customization. the latest version of the National CAD Standards will also be explored. Restricted to: Community Colleges only.

Prerequisite(s): DRFT 109.

DRFT 288. Portfolio Development 3 Credits (2+2P)

Production of a portfolio consisting of previously produced student work related to the student's individualized degree option. Process shall include the compilation and organization of working and presentation drawings, construction documents, BIM Models, and renderings/animations. Students will learn the basics of design layout and online portfolio documentation. Job search and resume preparation activities will also be required. Production of new material and content may also be required. This course is designed as a last semester course in the Drafting & Design curricula. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): Consent of Instructor.

DRFT 290. Special Topics

1-4 Credits (1-4)

Topics subtitled in the Schedule of Classes. May be repeated for a maximum of 12 credits.

DRFT 291. Cooperative Experience

1-6 Credits (1-6)

Supervised cooperative work program. Student is employed in an approved occupation and supervised and rated by the employer and instructor. Student meets with advisor weekly. Graded S/U.

Prerequisite: consent of instructor.

DRFT 295. Professional Development and Leadership DAGA 1 Credit (1)

Students gain experience in leadership, team building, performing community service, and membership and/or leadership in a student organization. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

Name: Chipper Moore, Department Chair

Office Location: DADM 200E

Phone: (575) 527-7592

Website: https://dacc.nmsu.edu/drft/

Architectural Technology - Associate of Applied Science

Doña Ana Community College 2020-21 Catalog

(60-61 credits)

NOTE: Students must earn a final grade of C- or better in all required DRFT courses/Technical Requirements/Electives and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 60 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	(Credits
General Education			

12-14

Select one course from four of the following six content areas for a total of 12-14 credits ^{1, 2}

This degree requires courses from Areas I and II; students must select two courses from the remaining areas (III, IV, V, or VI) to complete General Education requirements

Total Credits	ed electives (Anori, Dhr i, BOI, Of E 1)	60-61
	ed electives (ARCH, DRFT, BCT, or E T)	• • • • • • • • • • • • • • • • • • • •
Electives		11
DRFT 288	Portfolio Development	3
DRFT 265	Advanced Building Information Modeling Applications	3
DRFT 250	Principles of Detailing and Design	3
DRFT 240	Structural Systems Drafting	3
DRFT 230	Building Systems Drafting	3
DRFT 181	Commercial Drafting	3
DRFT 180	Residential Drafting	3
DRFT 165	Introduction to Building Information Modeling	3
DRFT 151	Construction Principles and Print Reading	3
DRFT 130	General Building Codes	3
DRFT 109	Computer Drafting Fundamentals	3
Technical Requirer	ments	
COMM 1115G	Introduction to Communication ¹	3
General Education E Communications	Elective - Area I: Communications - Oral	
MATH 1220G	College Algebra ^{3,4}	
Area II: Mathem		
ENGL 1110G	Composition I ³	
Area I: Commun	nications - English Composition Level 1	
General Education	requirements.	

Each course selected must be from a different area and students cannot take multiple courses in the same area.

Credits

- See the <u>General Education</u> (p. 52) section of the catalog for a full list of courses.
- Courses are identical to those offered at New Mexico State University Las Cruces (main) Campus.
- MATH 1220G College Algebra is required for the degree but students may need to take any prerequisites needed to enter MATH 1220G first

(60-61 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must earn a final grade of C- or better in all required DRFT courses/Technical Requirements/Electives and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 60 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course	Title	Credits
Semester 1		
Area I: Communication	s - English Composition Level 1	4
ENGL 1110G	Composition I	
DRFT 109	Computer Drafting Fundamentals	3
DRFT 130	General Building Codes	3
DRFT 151	Construction Principles and Print Reading	3
	Credits	13
Semester 2		
Area II: Mathematics		3
MATH 1220G	College Algebra	
	lect one 'G' Course from Area III, IV, V, or VI of the Requirements in the NMSU/DACC Catalog.	3-4
DRFT 165	Introduction to Building Information Modeling	3
DRFT 180	Residential Drafting	3
DRFT 181	Commercial Drafting	3
	Credits	15-16
Semester 3		
SUMMER		
General Education Elec Communications	ctive - Area I: Communications - Oral	3
00141411150		
COMM 1115G	Introduction to Communication	
General Education - Se NM General Education	elect one 'G' Course from Area IV, V, or VI of the Requirements in the NMSU/DACC Catalog. If the Requirements in the course taken in Semester	3
General Education - Se NM General Education Course must be in a dif	lect one 'G' Course from Area IV, V, or VI of the Requirements in the NMSU/DACC Catalog.	6
General Education - Se NM General Education Course must be in a dif	elect one 'G' Course from Area IV, V, or VI of the Requirements in the NMSU/DACC Catalog. fferent Area than the course taken in Semester	
General Education - Se NM General Education Course must be in a dit 2.	elect one 'G' Course from Area IV, V, or VI of the Requirements in the NMSU/DACC Catalog. fferent Area than the course taken in Semester	
General Education - Se NM General Education Course must be in a dif 2. Semester 4	elect one 'G' Course from Area IV, V, or VI of the Requirements in the NMSU/DACC Catalog. Ifferent Area than the course taken in Semester Credits	6

Advisor Approve	d Elective (ARCH, DRFT, BCT, E T, or ICT)	3
	Credits	12
Semester 5		
DRFT 265	Advanced Building Information Modeling Applications	3
DRFT 288	Portfolio Development	3
Advisor Approve	d Elective (ARCH, DRFT, BCT, E T, or ICT)	3
Advisor Approve	d Elective (ARCH, DRFT, BCT, E T, or ICT)	3
Advisor Approve	d Elective (ARCH, DRFT, BCT, E T, or ICT)	2
	Credits	14
	Total Credits	60-61

Civil/Survey Technology - Associate of Applied Science

Doña Ana Community College 2020-21 Catalog

Title

(60 credits)

Prefix

NOTE: Students must earn a final grade of C- or better in all required DRFT courses/Technical Requirements/Electives and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 60 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

General Education		
Select one course fro 12-14 credits ^{1, 2}	om four of the following six content areas for a total of	12-14
J .	s courses from Areas I, II, and III; students must rom the remaining areas (IV, V, or VI) to complete requirements.	
Area I: Communi	cations - English Composition Level 1	
ENGL 1110G	Composition I ³	
Area II: Mathema	atics	
MATH 1220G	College Algebra ^{3, 4}	
Area III: Laborato	ory Sciences	
PHYS 1230G	Algebra-Based Physics I ³	
PHYS 1230L	Algebra-Based Physics I Lab ³	
General Education El Communications	ective - Area I: Communications - Oral	
COMM 1115G	Introduction to Communication ³	3
	ective - Area IV: Social/Behavorial Sciences, Area V: VI: Creative and Fine Arts	3
Core Requirements		
MATH 1250G	Trigonometry & Pre-Calculus ³	4
Major Requirements	s	
Technical Requireme	ents	
DRFT 109	Computer Drafting Fundamentals	3
DRFT 143	Civil Drafting Fundamentals	3
DRFT 151	Construction Principles and Print Reading	3
or E T 154	Construction Methods and Communications	

DRFT 153	Survey Drafting Applications	3
DRFT 204	Geographic Information Systems Technology	3
DRFT 222	Surveying Fundamentals	3
DRFT 242	Roadway Development Drafting	3
DRFT 243	Land Development Drafting	3
DRFT 254	Spatial Data Processing	3
DRFT 288	Portfolio Development	3
Electives, to bring t	the total credits to 60	
Advisor approved e	electives (C E, DRFT, ENGR, E T, GEOG, SUR)	9
Total Credits		60

- Each course selected must be from a different area and students cannot take multiple courses in the same area.
- See the <u>General Education</u> (p. 52) section of the catalog for a full list of courses.
- Courses are identical to those offered at New Mexico State University Las Cruces (main) Campus.
- MATH 1220G College Algebra is required for the degree but students may need to take any prerequisites needed to enter MATH 1220G first

(60 credits)

Course

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must earn a final grade of C- or better in all required DRFT courses/Technical Requirements/Electives and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 60 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Title

oodioc	Title	Orcuito
Semester 1		
Area I: Communicati	ons - English Composition Level 1	4
ENGL 1110G	Composition I	
DRFT 109	Computer Drafting Fundamentals	3
DRFT 151 or E T 154	Construction Principles and Print Reading or Construction Methods and Communications	3
DRFT 204	Geographic Information Systems Technology	3
	Credits	13
Semester 2		
Area II: Mathematics	3	3
MATH 1220G	College Algebra	
General Education E Communications	lective - Area I: Communications - Oral	3
COMM 1115G	Introduction to Communication	
DRFT 143	Civil Drafting Fundamentals	3
DRFT 153	Survey Drafting Applications	3

DRFT 254	Spatial Data Processing	3
	Credits	15
Semester 3		
Area II: Mathematic	s	4
MATH 1250G	Trigonometry & Pre-Calculus	
Area III: Laboratory	Sciences	4
PHYS 1230G	Algebra-Based Physics I	
PHYS 1240G	Algebra-Based Physics II	
DRFT 242	Roadway Development Drafting	3
Advisor Approved E	lective (C E, DRFT, ENGR, E T, GEOG, SUR)	3
Advisor Approved E	lective (C E, DRFT, ENGR, E T, GEOG, SUR)	3
	Credits	17
Semester 4		
VI: Creative and Fine	avioral Sciences, Area V: Humanities, or Area e Arts - Choose one course from NM General	3
	/, or VI in the NMSU/DACC Catalog.	
DRFT 222	Surveying Fundamentals	3
DRFT 243	Land Development Drafting	3
DRFT 288	Portfolio Development	3
Advisor Approved E	lective (C E, DRFT, ENGR, E T, GEOG, SUR)	3
	Credits	15
	Total Credits	60

Mechanical Drafting and Solid Modeling - Associate of Applied Science

Doña Ana Community College 2020-21 Catalog

Title

(60 credits)

Credits

Prefix

NOTE: Students must earn a final grade of C- or better in all required DRFT courses/Technical Requirements/Electives and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 60 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Credits

Ge	neral Education		
	lect one course from 1 -14 credits ^{1, 2}	four of the following six content areas for a total of	12-14
se		ourses from Areas I, II and III; students must the remaining areas to complete General s.	
	Area I: Communicat	ions - English Composition Level 1	
	ENGL 1110G	Composition I ³	
	Area II: Mathematic	s	
	MATH 1220G	College Algebra ^{3, 4}	
	Area III: Laboratory	Sciences	
	PHYS 1230G & PHYS 1230L	Algebra-Based Physics I and Algebra-Based Physics I Lab ³	

General Education E Communications	Elective - Area I: Communications - Oral	
COMM 1115G	Introduction to Communication ³	3
Core Requirements		
MATH 1250G	Trigonometry & Pre-Calculus ³	4
Major Requirement	ts	
Technical Requirem	ents	
DRFT 109	Computer Drafting Fundamentals	3
DRFT 114	Introduction to Solid Modeling	3
DRFT 124	Introduction to Geometric Dimensioning and Tolerancing	3
DRFT 164	Intermediate Mechanical Drafting/Solid Modeling	3
DRFT 214	Advanced Solid Modeling	3
DRFT 288	Portfolio Development	3
MAT 102	Print Reading for Industry	3
MAT 105	Introduction to Manufacturing	3
Advisor approved 6 WELD)	electives (AERT, ARCH, DRFT, ENGR, E T, MAT, M E, or	15
Total Credits		60

- Each course selected must be from a different area and students cannot take multiple courses in the same area.
- See the <u>General Education</u> (p. 52) section of the catalog for a full list of courses.
- Courses are identical to those offered at New Mexico State University Las Cruces (main) Campus.
- MATH 1220G College Algebra is required for the degree but students may need to take any prerequisites needed to enter MATH 1220G first.

(60 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must earn a final grade of C- or better in all required DRFT courses/Technical Requirements/Electives and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 60 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course	Title	Credits
Semester 1		
Area I: Communicat	ions - English Composition Level 1	4
ENGL 1110G	Composition I	
DRFT 109	Computer Drafting Fundamentals	3
MAT 102	Print Reading for Industry	3
MAT 105	Introduction to Manufacturing	3
	Credits	13

Semester 2		
Area II: Mathematics		3
MATH 1220G	College Algebra	
	choose one course from NM General Education e NMSU/DACC Catalog.	3
DRFT 114	Introduction to Solid Modeling	3
DRFT 124	Introduction to Geometric Dimensioning and Tolerancing	3
DRFT 164	Intermediate Mechanical Drafting/Solid Modeling	3
	Credits	15
Semester 3		
SUMMER		
General Education Ele Communications	ective - Area I: Communications - Oral	3
COMM 1115G	Introduction to Communication	
Advisor Approved Ele WELD)	ctive (AERT, ARCT, DRFT, ENGR, E T, MAT, M E, or	3
	Credits	6
Semester 4		
Area II: Mathematics		4
MATH 1250G	Trigonometry & Pre-Calculus	
DRFT 214	Advanced Solid Modeling	3
Advisor-Approved Ele WELD)	ctive (AERT, ARCH, DRFT, ENGR, E T, MAT, M E, or	3
Advisor-Approved Ele WELD)	ctive (AERT, ARCH, DRFT, ENGR, E T, MAT, M E, or	3
	Credits	13
Semester 5		
Area III: Laboratory S	ciences	4
PHYS 1230G & PHYS 1230L	Algebra-Based Physics I and Algebra-Based Physics I Lab	
DRFT 288	Portfolio Development	3
Advisor-Approved Ele WELD)	ctive (AERT, ARCH, DRFT, ENGR, E T, MAT, M E, or	3
Advisor-Approved Ele WELD)	ctive (AERT, ARCH, DRFT, ENGR, E T, MAT, M E, or	3
	Credits	13
	Total Credits	60

Pre-Architecture - Associate of Applied Science

Doña Ana Community College 2020-21 Catalog

(72 credits)

NOTE: Students must receive a final grade of C- or better in all required ARCH courses/Technical Requirements/Electives (except ARCH 1120 and ARCH 1110 as listed below) and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 72 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

As stated above, a grade of C- or better is required in all courses except ARCH 1120 Introduction to Architecture & ARCH 1110 Architectural Drawing which requires a B- or better.

Prefix	Title	Credits
General Education		
Select one course fro 12-14 credits ^{1, 2}	m four of the following six content areas for a total of	12-14
from Area IV or V; st	courses from Areas I, II, III and either a course udents do not need to take any additional course Education requirements	
Area I: Communi	'	
ENGL 1110G	Composition I ³	
Area II: Mathema		
MATH 1250G	Trigonometry & Pre-Calculus ^{3, 4}	
Area III: Laborato		
PHYS 1230G & PHYS 1230L	Algebra-Based Physics I and Algebra-Based Physics I Lab ³	
Area IV: Social/B	ehavioral Sciences	
The following is	recommended for this area:	
POLS 1120G	American National Government ^{5,6}	
Area V: Humaniti		
The following are	e recommended for this area:	
HIST 1150G	Western Civilization I 3,5	
HIST 1110G	United States History I ^{3,5,6}	
HIST 1120G	United States History II 3,5,6	
General Education El		
COMM 1115G	Introduction to Communication ³	3
Core Requirements		
ENGL 2221G	Writing in the Humanities and Social Science ³	3
MATH 1430G	Applications of Calculus I ³	3
Major Requirements	S	
Technical Requireme	nts	
ARCH 1110	Architectural Drawing ⁷	4
ARCH 1114	Introduction to Architectural Design	3
ARCH 1120	Introduction to Architecture ⁷	3
ARCH 1121	Computers in Architecture	3
ARCH 1122	Architectural Design Studio I	5
ARCH 1220	Architecture World History I	3
ARCH 2111	Architectural Delineation I	3
ARCH 2114	Construction Documents	3
ARCH 2115	Architecture Design Studio II	5
ARCH 2116	Architectural Delineation	3
ARCH 2220	Architectural World History II	3
DRFT 151	Construction Principles and Print Reading	3
Electives		
Select 7 credits from	n the following: ⁵	7
ARCH 2124	Professional Development and Leadership- AIAS	
Any other adviso	r-approved ARCT course	
ARTS 1610	Drawing I ³	
ARTS 1240	Design I ³	
ARTS 1250	Design II ³	
Advisor-approved	d natural science elective ⁶	
Total Credits		72

Each course selected must be from a different area and students cannot take multiple courses in the same area.

- See the <u>General Education</u> (p. 52) section of the catalog for a full list of courses.
- Courses are identical to those offered at New Mexico State University Las Cruces (main) Campus.
- MATH 1250G Trigonometry & Pre-Calculus is required for the degree but students may need to take any prerequisites needed to enter MATH 1250G first.
- Students only need to select one of the following courses to fulfill the General Education course requirements.
- Either POLS 1120G American National Government to meet Area IV: Social/Behavioral Sciences or,
 - Either HIST 1150G Western Civilization I, HIST 1110G United States History I, or HIST 1120G United States History II to meet Area V: Humanities
 - *Students do not need to take one from each.
- B.S. Architecture program at Texas Tech University.
- Requires a grade of B- or better.

(72 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 72 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

A grade of C- or better is required in all courses except ARCH 1120 Introduction to Architecture & ARCH 1110 Architectural Drawing which requires a B- or better. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Course	Title	Credits
Semester 1		
FALL		
Area I: Communications - English Composition Level 1		4
ENGL 1110G	Composition I	
Area IV: Social/Behavi	3	
Select one course from either Area IV: POLS 1120G, OR Area V: HIST 1110G, HIST 1120G, or HIST 1150G,		
ARCH 1110	Architectural Drawing	4
ARCH 1120	Introduction to Architecture	3
DRFT 151	Construction Principles and Print Reading	3
	Credits	17
Semester 2	Credits	17
Semester 2 SPRING	Credits	17
SPRING	Credits ns - English Composition Level 2	17
SPRING		
SPRING Area I: Communication	ns - English Composition Level 2	
SPRING Area I: Communication ENGL 2221G	ns - English Composition Level 2	3
SPRING Area I: Communication ENGL 2221G Area II: Mathematics	ns - English Composition Level 2 Writing in the Humanities and Social Science	3

ARCH 2111	Architectural Delineation I	3
	Credits	15
Semester 3 SUMMER		
General Education E Communications	lective - Area I: Communications - Oral	3
COMM 1115G	Introduction to Communication	
	ective - ARCH 2124 or any other advisor approved 1610, ARTS 1240, ARTS 1250, or any other ourse in this area.	3
	Credits	6
Semester 4		
FALL		
Area II: Mathematics	3	4
MATH 1250G	Trigonometry & Pre-Calculus	
ARCH 1122	Architectural Design Studio I	5
ARCH 1220	Architecture World History I	3
ARCH 2114	Construction Documents	3
ARCH 2116	Architectural Delineation	3
	Credits	18
Semester 5		
SPRING		
Area III: Laboratory Sciences		4
PHYS 1230G & PHYS 1230L	Algebra-Based Physics I and Algebra-Based Physics I Lab	
ARCH 2115	Architecture Design Studio II	5
ARCH 2220	Architectural World History II	3
	ective - ARCH 2124 or any other advisor approved 1610, ARTS 1240, ARTS 1250, or any other ourse in this area.	1
	ective - ARCH 2124 or any other advisor approved 1610, ARTS 1240, ARTS 1250, or any other urse in this area.	3
	Credits	16
	Total Credits	72

Architectural Technology - Certificate of Completion

Doña Ana Community College 2020-21 Catalog

(18 credits)

NOTE: Students must earn a final grade of C- or better in all courses and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University certificate requirements to total at least 18 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
Technical Requirements		
DRFT 109	Computer Drafting Fundamentals	3
DRFT 130	General Building Codes	3
DRFT 151	Construction Principles and Print Reading	3

Total Credits		18	
A final grade of C- or better is required in all courses.			
or DRFT 240	Structural Systems Drafting		
DRFT 181	Commercial Drafting	3	
DRFT 180	Residential Drafting	3	
DRFT 165	Introduction to Building Information Modeling	3	

(18 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must earn a final grade of C- or better in all courses and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University certificate requirements to total at least 18 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course	Title	Credits
Semester 1		
DRFT 109	Computer Drafting Fundamentals	3
DRFT 130	General Building Codes	3
DRFT 151	Construction Principles and Print Reading	3
	Credits	9
Semester 2		
DRFT 165	Introduction to Building Information Modeling	3
DRFT 180	Residential Drafting	3
DRFT 181	Commercial Drafting	3
or DRFT 240	or Structural Systems Drafting	
	Credits	9
	Total Credits	18

Civil/Survey Technology - Certificate of Completion

Doña Ana Community College 2020-21 Catalog

(18 credits)

NOTE: Students must earn a final grade of C- or better in all required DRFT courses and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University certificate requirements to total at least 18 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
Technical Requirements		
DRFT 109	Computer Drafting Fundamentals	3
DRFT 143	Civil Drafting Fundamentals	3
DRFT 151	Construction Principles and Print Reading	3
or E T 154	Construction Methods and Communications	
DRFT 153	Survey Drafting Applications	3
DRFT 204	Geographic Information Systems Technology	3
or DRFT 242	Roadway Development Drafting	
DRFT 254	Spatial Data Processing	3
or DRFT 243	Land Development Drafting	
Total Credits		18

(18 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must earn a final grade of C- or better in all required DRFT courses and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University certificate requirements to total at least 18 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course	Title	Credits
Semester 1		
DRFT 109	Computer Drafting Fundamentals	3
DRFT 151 or E T 154	Construction Principles and Print Reading or Construction Methods and Communications	3
DRFT 204 or DRFT 242	Geographic Information Systems Technology or Roadway Development Drafting	3
	Credits	9
Semester 2		
DRFT 143	Civil Drafting Fundamentals	3
DRFT 153	Survey Drafting Applications	3
DRFT 254 or DRFT 243	Spatial Data Processing or Land Development Drafting	3
	Credits	9
	Total Credits	18

Drafting and Graphics Technology- Certificate of Completion

Doña Ana Community College 2020-21 Catalog

(18 credits)

NOTE: Students must earn a final grade of C- or better in all required DRFT courses/Technical Requirements and achieve a cumulative

grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 18 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
Technical Requiren	nents	
DRFT 109	Computer Drafting Fundamentals	3
DRFT 151	Construction Principles and Print Reading	3
or MAT 102	Print Reading for Industry	
Advisor-Approved Electives (ARCH or DRFT)		12
Total Credits		18

(18 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must earn a final grade of C- or better in all required DRFT courses/Technical Requirements and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University certificate requirements to total at least 18 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course	Title	Credits
Semester 1		
DRFT 109	Computer Drafting Fundamentals	3
DRFT 151 or MAT 102	Construction Principles and Print Reading or Print Reading for Industry	3
Advisor-Approved I	Elective (ARCH or DRFT course)	3
	Credits	9
Semester 2		
Advisor-Approved I	Elective (ARCH or DRFT course)	3
Advisor-Approved I	Elective (ARCH or DRFT course)	3
Advisor-Approved I	Elective (ARCH or DRFT course)	3
	Credits	9
	Total Credits	18

Geographical Information Systems - Certificate of Completion

Doña Ana Community College 2020-21 Catalog

(19 credits)

NOTE: Students must earn a final grade of C- or better in all required DRFT courses and achieve a cumulative grade-point average of at least

2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 19 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
Technical Requirem	ents	
DRFT 109	Computer Drafting Fundamentals	3
DRFT 153	Survey Drafting Applications	3
DRFT 204	Geographic Information Systems Technology	3
DRFT 254	Spatial Data Processing	3
DRFT 274	GIS Theory and Analysis	3
GEOG 1110G	Physical Geography ¹	4
or Advisor Appro	ved Elective (DRFT, GEOG, or SUR)	
Total Credits		19

Courses are identical to those offered at New Mexico State University Las Cruces (main) Campus.

(19 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must earn a final grade of C- or better in all DRFT courses and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University certificate requirements to total at least 19 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course	Title	Credits
Semester 1		
Area III: Laboratory S	Sciences	4
GEOG 1110G	Physical Geography	
DRFT 109	Computer Drafting Fundamentals	3
DRFT 204	Geographic Information Systems Technology	3
	Credits	10
Semester 2		
DRFT 153	Survey Drafting Applications	3
DRFT 254	Spatial Data Processing	3
DRFT 274	GIS Theory and Analysis	3
	Credits	9
	Total Credits	19

Mechanical Drafting and Solid Modeling - Certificate of Completion

Doña Ana Community College 2020-21 Catalog

(18 credits)

NOTE: Students must earn a final grade of C- or better in all required DRFT courses/Technical Requirements and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University certificate requirements to total at least 18 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
Technical Require	ements	
DRFT 109	Computer Drafting Fundamentals	3
DRFT 114	Introduction to Solid Modeling	3
DRFT 164	Intermediate Mechanical Drafting/Solid Modeling	3
DRFT 214	Advanced Solid Modeling	3
MAT 102	Print Reading for Industry	3
or Advisor App WELD)	proved Elective (AERT, DRFT, ENGR, E T, MAT, or	
MAT 105	Introduction to Manufacturing	3
or Advisor App WELD)	proved Elective (AERT, DRFT, ENGR, E T, MAT, or	
Total Credits		18

(18 credits)

NOTE: Students must earn a final grade of C- or better in all required DRFT courses/Technical Requirements and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University certificate requirements to total at least 18 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course	Title	Credits
Semester 1		
MAT 105	Introduction to Manufacturing (OR Advisor- Approved Elective (AERT, DRFT, ENGR, E T, MAT, or WELD))	3
DRFT 109	Computer Drafting Fundamentals	3
	Credits	6
Semester 2		
DRFT 114	Introduction to Solid Modeling	3
MAT 102	Print Reading for Industry (OR Advisor- Approved Elective (AERT, DRFT, ENGR, E T, MAT, or WELD))	3
	Credits	6
Semester 3		
DRFT 164	Intermediate Mechanical Drafting/Solid Modeling	3
DRFT 214	Advanced Solid Modeling	3
	Credits	6
	Total Credits	18

Pre-Architecture - Certificate of Completion

Doña Ana Community College 2020-21 Catalog

(30 credits)

NOTE: Students must earn a final grade of C- or better in all required ARCH courses (except ARCH 1110 Architectural Drawing and ARCH 1120 Introduction to Architecture as indicated below) and Technical Requirements and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University certificate requirements, which include: General Education requirements and elective credits to total at least 30 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

As stated above, a grade of C- or better is required in all courses except ARCH 1110 Architectural Drawing and ARCH 1120 Introduction to Architecture which require a B- or better.

Prefix	Title	Credits
General Education		
Area I: Communicat	ions - English Composition Level 1	4
ENGL 1110G	Composition I	
Area I: Communicat	ions - English Composition Level 2	3
ENGL 2221G	Writing in the Humanities and Social Science	
Area II: Mathematic	s	3
MATH 1220G	College Algebra	
Technical Requirem	ents	
ARCH 1110	Architectural Drawing ¹	4
ARCH 1114	Introduction to Architectural Design	3
ARCH 1120	Introduction to Architecture ¹	3
ARCH 2124	Professional Development and Leadership- AIAS	1
ARCH 2994	Portfolio Design in Architecture	3
DRFT 151	Construction Principles and Print Reading	3
ARCH 1121	Computers in Architecture	3
or ARCH 2114	Construction Documents	
Total Credits		30

Requires a grade of B- or better.

(30 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must earn a final grade of C- or better in all required ARCH courses (except ARCH 1110 Architectural Drawing and ARCH 1120 Introduction to Architecture as indicated below) and Technical Requirements, and achieve a cumulative grade-point average of at least

2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University certificate requirements, which include: General Education requirements and elective credits to total at least 30 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

As stated above, a grade of C- or better is required in all courses except ARCH 1110 Architectural Drawing and ARCH 1120 Introduction to Architecture which require a B- or better.

Course	Title	Credits
Semester 1		
Area I: Communication	ons - English Composition Level 1	4
ENGL 1110G	Composition I	
ARCH 1110	Architectural Drawing	4
ARCH 1120	Introduction to Architecture	3
ARCH 2124	Professional Development and Leadership- AIAS	1
DRFT 151	Construction Principles and Print Reading	3
	Credits	15
Semester 2		
Area I: Communication	ons - English Composition Level 2	3
ENGL 2221G	Writing in the Humanities and Social Science	
Area II: Mathematics		3
MATH 1220G	College Algebra	
ARCH 1114	Introduction to Architectural Design	3
ARCH 1121 or ARCH 2114	Computers in Architecture or Construction Documents	3
ARCH 2994	Portfolio Design in Architecture	3
	Credits	15
	Total Credits	30

Early Childhood Education

Associate Degree: Early Childhood Education

Certificate of Completion: Early Childhood Education Administration

The Early Childhood Education associate degree program is designed to prepare students to become highly qualified teachers, assistant teachers, or family day care providers in professional child care for children ages birth through eight years. Students will gain a broad understanding of the specific needs of young children and develop strategies for meeting those needs. They may choose to continue their education at any four-year institution in New Mexico.

The DACC program includes the lower-division courses required for entry into the Teacher Education Program (TEP), a baccalaureate program at New Mexico State University. Alternatively, students may opt to transfer to a similar program at another four-year institution. Completion of this program does NOT guarantee admission into a Teacher Education Program at a four-year institution. Early in their second year of study at DACC, students should contact the four-year institution they have chosen to obtain application information.

Requirements and Limitations

1. Students in the Early Childhood Education Program are required to complete and pass a security background check in order to take

practicum courses and complete field experiences. Past criminal violations may prevent a student from completing the degree and from being hired by school systems or other child care facilities upon graduation.

2. Students must complete all technical requirement courses as well as the following courses with a grade of C- or better:

Prefix	Title	Credits
CEPY 1120G	Human Growth and Behavior	3
ENGL 1110G	Composition I	4
ENGL 2221G	Writing in the Humanities and Social Science	3
MATH 1215	Intermediate Algebra	3
MATH 1134	Fundamentals of Elementary Mathematics I	3
MATH 2134G	Fundamentals of Elementary Math II	3

- Students must have a 2.0 GPA to graduate from this program.
 However, because a 2.75 GPA is required for acceptance into the
 Teacher Education Program at NMSU, it is highly recommended that
 DACC students complete the Early Childhood Education program with
 a 2.75 cumulative GPA.
- 4. Time Limit on Undergraduate Teacher Education Courses. Any education course more than seven years old taken at NMSU, NMSU community colleges or other institutions will not be counted toward the student's undergraduate program. A student may meet with the department to have the course time limit reviewed. The department head and/or faculty may recommend accepting a course that is seven years old with approval from the Dean's office. Any course not approved must be repeated by the student.
- 5. Completion of all requirements does **not** guarantee acceptance in the NMSU Teacher Education Program. Please see the NMSU College of Education Advising Center for more information.

Early Childhood Education - Associate Degree (p. 221)

Early Childhood Administrator - Certificate (p. 223)

ECED 1110. Child Growth, Development, and Learning 3 Credits (3)

This basic course in the growth, development, and learning of young children, prenatal through age eight, provides students with the theoretical foundation for becoming competent early childhood professionals. The course includes knowledge of how young children grow, develop and learn. Major theories of child development are integrated with all domains of development, including biological-physical, social, cultural, emotional, cognitive and language. The adult's role in supporting each child's growth, development and learning is emphasized.

ECED 1115. Health, Safety, and Nutrition 2 Credits (2)

This course provides information related to standards and practices that promote children's physical and mental well-being sound nutritional practices, and maintenance of safe learning environments. It includes information for developing sound health and safety management procedures for indoor and outdoor learning environments for young children. The course examines the many scheduling factors that are important for children's total development, healthy nutrition, physical activity, and rest.

ECED 1120. Guiding Young Children 3 Credits (3)

This course explores various theories of child guidance and the practical applications of each. It provides developmentally appropriate methods for guiding children and effective strategies and suggestions for facilitating positive social interactions. Strategies for preventing challenging behaviors through the use of environment, routines and schedule will be presented Emphasis is placed on helping children become self- responsible, competent, independent, and cooperative learners and including families as part of the guidance approach.

ECED 1125. Assessment of Children and Evaluation of Programs 3 Credits (3)

This basic course familiarizes students with a variety of culturally appropriate assessment methods and instruments, including systematic observation of typically and non-typically developing children. The course addresses the development and use of formative and summative assessment and evaluation instruments to ensure comprehensive quality of the total environment for children, families, and the community. Students will develop skills for evaluating the assessment process and involving other teachers, professionals and families in the process.

Prerequisite(s): ECED 1110 and (ENGL 1110G or ENGL 1110H or ENGL 1110M).

ECED 1130. Family and Community Collaboration 3 Credits (3)

This beginning course examines the involvement of families and communities from diverse cultural and linguistic backgrounds in early childhood programs. Ways to establishes collaborative relationships with families in early childhood settings is discussed. Families' goals and desires for their children will be supported through culturally responsive strategies.

Prerequisite(s): ECED 1110 and (ENGL 1110G or ENGL 1110H or ENGL 1110M).

ECED 2110. Professionalism

2 Credits (2)

This course provides a broad-based orientation to the field of early care and education. Early childhood history, philosophy, ethics and advocacy are introduced. Basic principles of early childhood systems are explored. Multiple perspectives on early care and education are introduced. Professional responsibilities such as cultural responsiveness and reflective practice are examined.

ECED 2115. Introduction to Language, Literacy, and Reading 3 Credits (3)

This course is designed to prepare early childhood professionals for promoting children's emergent literacy and reading development. Through a developmental approach, the course addresses ways in which early childhood professionals can foster young children's oral language development, phonemic awareness, and literacy problem solving skills, fluency, vocabulary, and comprehension. This course provides the foundation for early childhood professionals to become knowledgeable about literacy development in young children. Instructional approaches and theory-based and research based strategies to support the emergent literacy and reading skills of native speakers and English language learners will be presented.

Prerequisite(s): ECED 1110 and (ENGL 1110G or ENGL 1110H, or ENGL 1110M).

ECED 2120. Curriculum Development through Play Birth through Age 4 (PreK)

3 Credits (3)

The beginning curriculum course places play at the center of curriculum in developmentally appropriate early childhood programs. It addresses content that is relevant for children birth through age four in developmentally and culturally sensitive ways of integrating content into teaching and learning experiences. Information on adapting content areas to meet the needs of children with special needs and the development of IFSPs is included. Curriculum development in all areas, including literacy, numeracy, the arts, health, science, social skills, and adaptive learning for children, birth through age four, is emphasized. Consent of instructor required.

Prerequisite(s): ECED 1110 and (ENGL 1110G or ENGL 1110H or ENGL 1110M).

Corequisite(s): ECED 2121.

ECED 2121. Curriculum Development through Play Birth through Age 4 (PreK) Practicum

2 Credits (2)

The beginning practicum course is a co-requisite with the course Curriculum Development through Play – Birth through Age 4. The field based component of this course will provide experiences that address curriculum content that is relevant for children birth through age four in developmentally and culturally sensitive ways of integrating content into teaching and learning experiences. Information on adapting content areas to meet the needs of children with special needs and the development of IFSPs is included. Curriculum development in all areas, including literacy, numeracy, the arts, health, science, social skills, and adaptive learning for children, birth through age four, is emphasized. Consent of instructor required.

Prerequisite(s): ECED 1110 and (ENGL 1110G or ENGL 1110H or ENGL 1110M).

Corequisite(s): ECED 2120.

ECED 2130. Curriculum Development and Implementation Age 3 (PreK) through Grade 3

3 Credits (3)

The curriculum course focuses on developmentally appropriate curriculum content in early childhood programs, age 3 through third grade. Development and implementation of curriculum in all content areas, including literacy, numeracy, the arts, health and emotional wellness, science, motor and social skills, is emphasized. Information on adapting content areas to meet the needs of children with special needs and the development of IEP's is included. Consent of instructor required.

Prerequisite(s): ECED 1110 and (ENGL 1110G or ENGL 1110H or ENGL 1110M).

Corequisite(s): ECED 2131.

ECED 2131. Curriculum Development and Implementation Age 3 (PreK) through Grade 3 Practicum

2 Credits (2)

The beginning practicum course is a co-requisite with the course Curriculum Development and Implementation: Age 3 through Grade 3. The field based component of this course will provide experiences that address developmentally appropriate curriculum content in early childhood programs, age 3 through third grade. Development and implementation of curriculum in all content areas, including literacy, numeracy, the arts, health and emotional wellness, science, motor and social skills is emphasized. Information on adapting content areas to meet the needs of children with special needs and the development of IEPs is included. Consent of instructor required. Corequisite(s): ECED 2130

Prerequisite(s): ECED 1110 and (ENGL 1110G or ENGL 1110H or ENGL 1110M).

ECED 2140. Effective Program Development for Diverse Learners and their Families

3 Credits (3)

This course addresses the role of a director/administrator in the implementation of family-centered programming that includes individually appropriate and culturally responsive curriculum in a healthy and safe learning environment for all children and their families.

ECED 2141. Effective Program Development for Diverse Learners and their Families Practicum

2 Credits (2)

Provides opportunities for students to apply knowledge gained from Curriculum for Diverse Learners and their Families in a practicum setting. Consent of instructor required. Restricted to ECED majors.

Corequisite(s): ECED 2140.

ECED 2215. Program Management

3 Credits (3)

This course emphasizes the technical knowledge necessary to develop and maintain an effective early care and education program. It focuses on sound financial management and vision, the laws and legal issues that affect programs, and state and national standards such as accreditation. Consent of instructor required.

ECED 2280. Professional Relationships

3 Credits (3)

This course addresses staff relations that will foster diverse professional relationships with families, communities and boards. Topics of staff recruitment, retention, support and supervision will lay the foundation for positive personnel, family and community relationships. Consent of instructor required.

Corequisite(s): ECED 2281.

ECED 2281. Professional Relationships Practicum 2 Credits (2)

Practical experience in the development of staff relationship that will foster professional relationships with families, communities and boards. Issues of staff recruitment, retention, support and supervision will lay a foundation for positive personnel management. Consent of instructor required. Restricted to ECED majors.

Corequisite(s): ECED 2280.

Name: Shannon Bradley, Department Chair

Office Location: DAAR 100C

Phone: (575) 528-7388

Website: http://dacc.nmsu.edu/educ/

Early Childhood Education - Associate Degree

Doña Ana Community College 2020-21 Catalog

(68 credits)

Students completing all of the Early Childhood coursework within the associate degree are eligible to apply for the One Year Vocational Certificate issued by the New Mexico Office of Child Development. For more information, contact the Office of Child Development at (505) 827-7946 or 1-800-832-1321.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 68 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

A grade of C- or better is required in all ECED and CEPY courses, as well as ENGL 1110G Composition I and designated Mathematics courses.

Prefix	Title	Credits
General Education		
Area I: Communications	3	
English Composition - L		
ENGL 1110G	Composition I *1,2	4
English Composition - L	evel 2	
ENGL 2221G	Writing in the Humanities and Social Science *1,2	3
Oral Communication		
COMM 1115G	Introduction to Communication ²	3
or COMM 1130G	Public Speaking	
Area II: Mathematics		
MATH 2134G	Fundamentals of Elementary Math II *1,2	3
Area III/IV: Laboratory S	Science and Social/Behavioral Sciences	11
CEPY 1120G	Human Growth and Behavior ²	
Select two from dif	ferent groups (8 credits):	
Group A:		
ASTR 1120G	The Planets ²	
or ASTR 1115G	Introduction Astro (lec+lab)	
Group B:		
BIOL 1120G & BIOL 1120L	Human Biology and Human Biology Laboratory ²	
BIOL 1190G	Contemporary Problems in Biology ²	
BIOL 2110G & BIOL 2110L	Principles of Biology: Cellular and Molecular Biology and Principles of Biology: Cellular and Molecular Biology Laboratory	
BIOL 2610G & BIOL 2610L	Principles of Biology: Biodiversity, Ecology, and Evolution and Principles of Biology: Biodiversity, Ecology, and Evolution Laboratory ²	
Group C:		
CHEM 1120G	Introduction to Chemistry Lecture and Laboratory (non majors) ¹	
or CHEM 1215G	General Chemistry I Lecture and Laboratory for STEI Majors	М

GEOL 1110G	Physical Geology ²	
or GEOG 1110G	Physical Geography	
Group E:		
PHYS 1115G	Survey of Physics with Lab ²	
PHYS 1230G & PHYS 1230L	Algebra-Based Physics I and Algebra-Based Physics I Lab ²	
Area V: Humanities		
HIST 1130G	World History I ²	3
or HIST 1140G	World History II	
Area VI: Creative and Fir	ne Arts	
Select one of the follow	ving:	3
ARTH 1115G	Orientation in Art ²	
MUSC 1110G	Music Appreciation: Jazz ²	
MUSC 1130G	Music Appreciation: Western Music ²	
THEA 1110G	Introduction to Theatre ²	
General Education Elect	ive	
HIST 1110G	United States History I ²	3
or HIST 1120G	United States History II	
Core Requirements		
MATH 1134	Fundamentals of Elementary Mathematics I *1,2	3
Select one from the fol	lowing:	3
ANTH 1115G	Introduction to Anthropology ²	
ECON 1110G	Survey of Economics ²	
ECON 2110G	Macroeconomic Principles ²	
ECON 2120G	Microeconomics Principles ²	
GEOG 1120G	World Regional Geography ²	

Human Geography 2

American National Government ²

Introduction to Political Science 2

GEOG 1130G

POLS 1120G

POLS 1110G

Group D:

SOCI 1110G	Introduction to Sociology ²	
Major Requirements		
Technical Requirements	(29 credits)	
ECED 1110	Child Growth, Development, and Learning	3
ECED 1115	Health, Safety, and Nutrition ¹	2
ECED 1120	Guiding Young Children	3
ECED 1125	Assessment of Children and Evaluation of Programs ¹	3
ECED 1130	Family and Community Collaboration ¹	3
ECED 2110	Professionalism	2
ECED 2115	Introduction to Language, Literacy, and Reading ¹	3
ECED 2120	Curriculum Development through Play Birth through Age 4 (PreK) ¹	3
ECED 2121	Curriculum Development through Play Birth through Age 4 (PreK) Practicum ¹	2
ECED 2130	Curriculum Development and Implementation Age 3 (PreK) through Grade 3	3
ECED 2131	Curriculum Development and Implementation Age 3 (PreK) through Grade 3 Practicum	2
Total Credits		68

- * The best time to take the Praxis Core Academic Skills for Educators (Core) is shortly after you have completed your English and Math courses.
- Courses are required to apply for the Teacher Education Program (TEP).

Courses are part of the New Mexico General Education Requirements.

(68 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

Students completing all of the Early Childhood coursework within the associate degree are eligible to apply for the One Year Vocational Certificate issued by the New Mexico Office of Child Development. For more information, contact the Office of Child Development at (505) 827-7946 or 1-800-832-1321.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 68 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

A grade of C- or better is required in all **ECED** and **CEPY** courses, as well as ENGL 1110G Composition I and designated Mathematics courses.

Course	Title	Credits
Semester 1		
Area I: Communicatio	ns - English Composition Level 1	4
ENGL 1110G	Composition I	
Area IV: Social/Behav	ioral Sciences - Choose one from the following:	3
ANTH 1115G	Introduction to Anthropology	
ECON 1110G	Survey of Economics	
ECON 2110G	Macroeconomic Principles	
ECON 2120G	Microeconomics Principles	
GEOG 1120G	World Regional Geography	
GEOG 1130G	Human Geography	
POLS 1110G	Introduction to Political Science	
POLS 1120G	American National Government	
SOCI 1110G	Introduction to Sociology	
Area VI: Creative and	Fine Arts - Choose one from the following:	3
ARTH 1115G	Orientation in Art	
MUSC 1110G	Music Appreciation: Jazz	
MUSC 1130G	Music Appreciation: Western Music	
THEA 1110G	Introduction to Theatre	
ECED 1110	Child Growth, Development, and Learning	3
ECED 1115	Health, Safety, and Nutrition	2
	Credits	15
Semester 2		
Area I: Communicatio	ns - English Composition Level 2	3
ENGL 2221G	Writing in the Humanities and Social Science	
Area III: Laboratory So 8 credits from differen	ciences - Choose one from the following (total of nt prefixes/areas):	4
ASTR 1115G	Introduction Astro (lec+lab)	
ASTR 1120G	The Planets	
BIOL 1120G & BIOL 1120L	Human Biology and Human Biology Laboratory	
BIOL 1190G	Contemporary Problems in Biology	

BIOL 2110G & BIOL 2110L	Principles of Biology: Cellular and Molecular	
& BIOL 2110L	Biology and Principles of Biology: Cellular and Molecular Biology Laboratory	
BIOL 2610G & BIOL 2610L	Principles of Biology: Biodiversity, Ecology, and Evolution	
	and Principles of Biology: Biodiversity, Ecology, and Evolution Laboratory	
CHEM 1120G	Introduction to Chemistry Lecture and Laboratory (non majors)	
CHEM 1215G	General Chemistry I Lecture and Laboratory for STEM Majors	
GEOG 1110G	Physical Geography	
GEOL 1110G	Physical Geology	
PHYS 1115G	Survey of Physics with Lab	
PHYS 1230G & PHYS 1230L	Algebra-Based Physics I and Algebra-Based Physics I Lab	
ECED 1130	Family and Community Collaboration	3
ECED 1125	Assessment of Children and Evaluation of Programs	3
ECED 1120	Guiding Young Children	3
	Credits	16
Semester 3		
	ns - Oral Communications	3
COMM 1115G or COMM 11300	Introduction to Communication or Public Speaking	
-	iences - Choose one from the following (total of	4
8 credits from differen ASTR 1115G	Introduction Astro (lec+lab)	
ASTR 1120G	The Planets	
BIOL 1120G	Human Biology	
& BIOL 1120L	and Human Biology Laboratory	
BIOL 1190G	Contemporary Problems in Biology	
BIOL 2110G	Principles of Biology: Cellular and Molecular	
& BIOL 2110L	Biology and Principles of Biology: Cellular and Molecular Biology Laboratory	
BIOL 2610G	Principles of Biology: Biodiversity, Ecology, and	
& BIOL 2610L	Evolution	
	and Principles of Biology: Biodiversity, Ecology, and Evolution Laboratory	
CHEM 1120G	Introduction to Chemistry Lecture and Laboratory (non majors)	
CHEM 1215G	General Chemistry I Lecture and Laboratory for STEM Majors	
GEOG 1110G	Physical Geography	
GEOL 1110G	Physical Geology	
PHYS 1115G	Survey of Physics with Lab	
PHYS 1230G & PHYS 1230L	Algebra-Based Physics I and Algebra-Based Physics I Lab	
Area V: Humanities		3
HIST 1130G or HIST 1140G	World History I or World History II	
ECED 2120	Curriculum Development through Play Birth through Age 4 (PreK)	3
ECED 2121	Curriculum Development through Play Birth through Age 4 (PreK) Practicum	2
MATH 1134	Fundamentals of Elementary Mathematics I	3
	Credits	18
Semester 4		

Area IV: Social/Behavioral Sciences

CEPY 1120G	Human Growth and Behavior	
General Education Ele	ctive - Area V: Humanities	3
HIST 1110G or HIST 1120G	United States History I or United States History II	
ECED 2115	Introduction to Language, Literacy, and Reading	3
ECED 2110	Professionalism	2
ECED 2130	Curriculum Development and Implementation Age 3 (PreK) through Grade 3	3
ECED 2131	Curriculum Development and Implementation Age 3 (PreK) through Grade 3 Practicum	2
Area II: Mathematics		
MATH 2134G	Fundamentals of Elementary Math II	3
	Credits	19
	Total Credits	68

Early Childhood Administrator - Certificate

Doña Ana Community College 2020-21 Catalog

This New Mexico Early Childhood Administrator's Certificate indicates completion of the early childhood professional courses (approximately 29 credits) within the associate degree program's transfer module. Upon completion of the DACC Certification, the Early Childhood Administrator Certificate is issued by the New Mexico Office of Child Development. For more information, contact the Office of Child Development at (505) 827-7946 or 1-800-832-1321.

(24 credits)

Prefix	Title	Credits
Core Courses		
ECED 1110	Child Growth, Development, and Learning	3
ECED 1115	Health, Safety, and Nutrition	2
ECED 1130	Family and Community Collaboration	3
ECED 1125	Assessment of Children and Evaluation of Programs	3
Administrator's Co	ourses	
ECED 2215	Program Management	3
ECED 2140	Effective Program Development for Diverse Learners and their Families	3
ECED 2141	Effective Program Development for Diverse Learners and their Families Practicum	2
ECED 2280	Professional Relationships	3
ECED 2281	Professional Relationships Practicum	2
Total Credits		24

Education

Associate Degree: Education

Concentrations:

- · Elementary Education
- · Secondary Language Arts
- · Secondary Math
- · Secondary Science

- · Secondary Social Studies
- Special Education

The Education associate degree program at Doña Ana Community College is designed to prepare students for transfer into the Teacher Education Program (TEP), a baccalaureate program at New Mexico State University. Alternatively, students may opt to transfer to a similar program at another four-year institution. The DACC program includes the lower division courses required for entry into the TEP. Completion of this program does NOT guarantee admission into a Teacher Education Program at a four-year institution. Early in their second year of study at DACC, students should contact the four-year institution they have chosen to obtain application information.

The Education associate degree has designed concentration areas in Elementary Education, Elementary Special Education, Secondary Language Arts, Secondary Math, Secondary Science, and Secondary Social Studies Education. Each of the concentration areas are designed to transfer seamlessly to the associated bachelor's degree program at New Mexico State University.

Requirements and Limitations

- Students in the Education Program are required to complete and pass a security background check in order to take field-experience courses.
 Past criminal violations may prevent a student from completing the degree and from being hired by school systems or other child care facilities upon graduation.
- The College of Education requires a minimum grade of "C-" in all education, TEP pre-requisite, endorsement and teaching field courses. Students must also complete General Education Requirements with a 'C-' or better.

Prefix	Title	Credits
General Edu	cation Requirements	
1. Ten cre	edits in Area I: Communications	
2. Nine -	Eleven credits in Area II: Mathematics	
3. Eight o	credits in Area III: Science	
4. Nine c	redits in Area IV: Social & Behavioral Scien	nces
5. Six cre	edits in Area V: Humanities	
6. Three	credits in Area VI: Creative & Fine Arts	

- Students must have a 2.0 GPA to graduate from this program.
 However, a 2.75 GPA is required for acceptance into the Teacher
 Education Program at NMSU. For this reason, it is highly
 recommended that DACC students complete the Education Program
 with a 2.75 cumulative GPA.
- 4. Any education course more than seven years old taken at NMSU, NMSU community colleges, or other institutions will not be counted toward the student's baccalaureate program. It is highly recommended that students request a review of their cumulative coursework by the appropriate department at NMSU. Any course not approved must be repeated by the student.

Note: It is recommended that students declare a concentration area with the help of an education advisor.

Education (Elementary Education) - Associate Degree (p. 224)

<u>Education (Elementary Education - Special Education) - Associate Degree</u> (p. 226)

Education (Secondary Language Arts) - Associate Degree (p. 228)

Education (Secondary Math) - Associate Degree (p. 230)

Education (Secondary Science) - Associate Degree (p. 232)

Education (Secondary Social Studies) - Associate Degree (p. 234)

EDUC 1110. Freshman Orientation

1 Credit (1)

Introduction to the university and to the College of Education. Discussion of planning for individualized education program and field experience. Restricted to Las Cruces campus only.

EDUC 1120. Introduction to Education

2 Credits (2)

Introduction to the historical, philosophical, sociological foundations of education, current trends, and issues in education; especially as it relates to a multicultural environment. Students will use those foundations to develop effective strategies related to problems, issues and responsibilities in the field of education. Restricted to Las Cruces campus only.

EDUC 1140. Math for Paraprofessionals

3 Credits (3)

Applied math skills for paraprofessionals working with children.

Prerequisite: CCDM 103 N.

EDUC 1150. Math for Paraprofessionals II

3 Credits (3)

Applied math skills for paraprofessionals working under the direction of a teacher.

Prerequisite(s): EDUC 1140.

EDUC 1185. Introduction to Secondary Education and Youth 3 Credits (3)

Introductory course for students considering a career in secondary education. Includes historical, philosophical, and sociological foundations, program organization, critical dispositions, and understanding the context of schools and youth. Practicum required. Restricted to: Secondary Ed majors. Traditional Grading with RR.

EDUC 1995. Field Experience I 1 Credit (1)

Introduction to public school teaching, school visits, classroom observations and discussion seminar.

EDUC 1996. Special Topics in Education

1 Credit (1)

Supervised study in a specific area of interest. Each course shall be designated by a qualifying subtitle. May be repeated for a maximum of 9 credits.

EDUC 1998. Internship I

3 Credits (3)

Supervised experience in elementary education settings.

EDLT 2110. Integrating Technology with Teaching 3 Credits (3)

Considers impact of technology on communication and knowledge development; engages students in the design of technology-integrated lessons with a constructivist approach.

EDUC 2710. Pre-Teacher Preparation

3 Credits (3)

Assists students in developing the necessary competencies needed for acceptance to the Teacher Education Program. Course content includes basic skill development, test taking skills, and completion of teacher preparation packet. Maybe repeated for a maximum of 6 credits. Graded S/U. Community Colleges only.

EDUC 2998. Internship II

3 Credits (3)

Supervised experience in junior high settings. **Prerequisite:** must be a co-op student.

Name: Shannon Bradley, Department Chair

Office Location: DAAR 100C

Phone: (575) 528-7388

Website: http://dacc.nmsu.edu/educ/

Education (Elementary Education) - Associate Degree

Doña Ana Community College 2020-21 Catalog

(60 credits)

NOTE: All courses listed may be applied toward a degree at NMSU.

A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses, along with those designated in footnote 2 listed in the Requirements.

Prefix	Title	Credits
General Education		
Area I: Communications		
English Composition - Le		
ENGL 1110G	Composition I 1, 2, *	4
English Composition - Le		
ENGL 2221G	Writing in the Humanities and Social Science ^{1,} 2, 3, *	3
Oral Communication		
COMM 1115G	Introduction to Communication 1, 2, 3	3
or COMM 1130G	Public Speaking	
Area II: Mathematics		
MATH 2134G	Fundamentals of Elementary Math II 1, 2, *	3
Area III/IV: Laboratory S	cience and Social/Behavioral Sciences	11
LING 2110G	Introduction to the Study of Language and Linguistics ^{1, 2, 3, 4}	
Select two different	Area III 'G' courses with labs	
ASTR 1120G	The Planets ¹	
or ASTR 1115G	Introduction Astro (lec+lab)	
BIOL 1120G	Human Biology	
& BIOL 1120L	and Human Biology Laboratory 1	
BIOL 1190G	Contemporary Problems in Biology ¹	
BIOL 2610G & BIOL 2610L	Principles of Biology: Biodiversity, Ecology, and Evolution and Principles of Biology: Biodiversity, Ecology, and Evolution Laboratory ¹	

	BIOL 2110G & BIOL 2110L	Principles of Biology: Cellular and Molecular Biology	
		and Principles of Biology: Cellular and Molecular Biology Laboratory	
	CHEM 1120G	Introduction to Chemistry Lecture and Laboratory (non majors) ¹	
	CHEM 1215G	General Chemistry I Lecture and Laboratory for STEM Majors ¹	
	CHEM 1225G	General Chemistry II Lecture and Laboratory for STEM Majors ¹	
	GEOG 1110G	Physical Geography ¹	
	GEOL 1110G	Physical Geology ¹	
	or GEOL 1110G	Physical Geology	
	PHYS 1115G	Survey of Physics with Lab ¹	
	PHYS 1125G	Physics of Music ¹	
	PHYS 1230G & PHYS 1230L	Algebra-Based Physics I and Algebra-Based Physics I Lab ¹	
	PHYS 1240G	Algebra-Based Physics II	
	& PHYS 1240L	and Algebra-Based Physics II Lab ¹	
Ai	rea V: Humanities		
Н	IST 1130G	World History I ¹	3
	or HIST 1140G	World History II	
Ai	rea VI: Creative and Fi	ne Arts	
S	elect one course fron	n the following:	3
	ARTH 1115G	Orientation in Art ¹	
	MUSC 1110G	Music Appreciation: Jazz ¹	
	MUSC 1130G	Music Appreciation: Western Music ¹	
	THEA 1110G	Introduction to Theatre ¹	
G	eneral Education Elect	ive	
Н	IST 1110G	United States History I ¹	3
	or HIST 1120G	United States History II	
C	ore Requirements		
М	ATH 1134	Fundamentals of Elementary Mathematics I * 2	3
М	ATH 1215	Intermediate Algebra *2	3
S	elect one course fron		3
	GEOG 1120G	World Regional Geography ¹	
	GEOG 1130G	Human Geography	
	POLS 1110G	Introduction to Political Science	
	POLS 1120G	American National Government	
M	ajor Requirements		
Pi	rofessional Requireme	nts (18 credits)	
CI	EPY 1120G	Human Growth and Behavior ^{1, 2}	3
В	LED 1110	Introduction n Bilingual Education/ESL	3
В	LED 2110	Bilingual Methods ^{1, 2, 4, *}	3
CI	EPY 2110	Learning in the Classroom ^{2,*}	3
EI	OLT 2110	Integrating Technology with Teaching (This course counts for EDLT 368 for Elementary Education Majors) ^{2,*}	3
El	ectives, to bring the		3
	Elective from Teach		
To	otal Credits		60

Courses are part of The New Mexico General Education Requirements.

- This course must be completed with a grade of C- or better.
- ³ These courses count toward the Language Arts Teaching Field.
- These courses count toward the Bilingual/TESOL endorsement.

* Courses with an (#) are pre-requisites for Teacher Education Program (TEP) admission.

(60 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses, along with those designated in footnote 2 on the previous page.

Course	Title	Credits
Semester 1		
Area I: Communication	s - English Composition Level 1	4
ENGL 1110G	Composition I	
Area I: Communication	s - Oral Communications	3
COMM 1115G or COMM 1130G	Introduction to Communication or Public Speaking	
Area IV: Social/Behavio	oral Sciences	3
LING 2110G	Introduction to the Study of Language and Linguistics	
Area VI: Creative and F	ine Arts - Choose one from the following:	3
ARTH 1115G	Orientation in Art	
MUSC 1110G	Music Appreciation: Jazz	
MUSC 1130G	Music Appreciation: Western Music	
THEA 1110G	Introduction to Theatre	
MATH 1215	Intermediate Algebra	3
	Credits	16
Semester 2		
Area I: Communication	s - English Composition Level 2	3
ENGL 2221G	Writing in the Humanities and Social Science	
Area III: Laboratory Sci 8 credits from different	ences - Choose one from the following (total of prefixes/areas):	4
ASTR 1115G	Introduction Astro (lec+lab)	
ASTR 1120G	The Planets	
BIOL 1120G & BIOL 1120L	Human Biology and Human Biology Laboratory	
BIOL 1190G	Contemporary Problems in Biology	
BIOL 2110G & BIOL 2110L	Principles of Biology: Cellular and Molecular Biology and Principles of Biology: Cellular and Molecular Biology Laboratory	
BIOL 2610G & BIOL 2610L	Principles of Biology: Biodiversity, Ecology, and Evolution and Principles of Biology: Biodiversity, Ecology, and Evolution Laboratory	
CHEM 1120G	Introduction to Chemistry Lecture and Laboratory (non majors)	
CHEM 1215G	General Chemistry I Lecture and Laboratory for STEM Majors	

CHEM 1225G	General Chemistry II Lecture and Laboratory for STEM Majors	
GEOG 1110G	Physical Geography	
GEOL 1110G	Physical Geology	
PHYS 1115G	Survey of Physics with Lab	
PHYS 1125G	Physics of Music	
PHYS 1230G & PHYS 1230L	Algebra-Based Physics I and Algebra-Based Physics I Lab	
PHYS 1240G & PHYS 1240L	Algebra-Based Physics II and Algebra-Based Physics II Lab	
Area IV: Social/Behavio	oral Sciences - Choose one from the following:	3
GEOG 1120G	World Regional Geography	
GEOG 1130G	Human Geography	
POLS 1110G	Introduction to Political Science	
POLS 1120G	American National Government	
Area V: Humanities		3
HIST 1130G & HIST 1140G	World History I and World History II	
CEPY 2110	Learning in the Classroom	3
	Credits	16

Semester 3

Area III: Laboratory Sciences - Choose one from the following (total of 8 credits from different prefixes/areas):

BLED 1110 Introduction n I	History I ates History II Bilingual Education/ESL 3 of Elementary Mathematics I 3
	ates History II
or HIST 1120G or United St	
HIST 1110G United States F	
General Education Elective - Area V: Hu	manities 3
CEPY 1120G Human Growth	
Area IV: Social/Behavioral Sciences	3
· ·	sed Physics II Lab
	sed Physics I Lab
PHYS 1230G Algebra-Based	
PHYS 1125G Physics of Mus	
PHYS 1115G Survey of Phys	
GEOL 1110G Physical Geological Ge	• •
GEOG 1110G Physical Geogr	
CHEM 1225G General Chemis for STEM Majo	stry II Lecture and Laboratory
CHEM 1215G General Chemis STEM Majors	stry I Lecture and Laboratory for
CHEM 1120G Introduction to Laboratory (no	Chemistry Lecture and n majors)
& BIOL 2610L Evolution	ology: Biodiversity, Ecology, and of Biology: Biodiversity, Ecology, aboratory
& BIOL 2110L Biology and Principles Molecular Biolo	•
	Problems in Biology
	ology Laboratory
ASTR 1120G The Planets	
ASTR 1115G Introduction As	tro (lec+lab)

Semester 4

Area II: Mathematic	es	3
MATH 2134G	Fundamentals of Elementary Math II	
BLED 2110	Bilingual Methods	3
EDLT 2110	Integrating Technology with Teaching	3
Elective from Teaching Field		
	Credits	12
	Total Credits	60

Education (Elementary Education-Special Education) - Associate Degree

Doña Ana Community College 2020-21 Catalog

(60 credits)

NOTE: All courses listed may be applied toward a degree at NMSU.

A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses, along with those designated in footnote 2.

Prefix	Title	Credits
General Education		
Area I: Communications		
English Composition - L	evel 1	
ENGL 1110G	Composition I 1, 2, *	4
English Composition - L	evel 2	
ENGL 2221G	Writing in the Humanities and Social Science ^{1,} 2, 3, *	3
Oral Communication		
COMM 1130G	Public Speaking ^{1, 2, 3, *}	3
or COMM 1115G	Introduction to Communication	
Area II: Mathematics		
MATH 1220G	College Algebra ^{1, 2, *}	3
Area III/IV: Laboratory S	Science and Social/Behavioral Sciences	11
LING 2110G	Introduction to the Study of Language and Linguistics ^{1, 2, 3, 4}	
	t subject areas with labs or any course listed e undergraduate catalog.	
ASTR 1120G	The Planets ¹	
or ASTR 1115G	Introduction Astro (lec+lab)	
BIOL 1120G	Human Biology	
& BIOL 1120L	and Human Biology Laboratory ¹	
BIOL 1190G	Contemporary Problems in Biology ¹	
BIOL 2110G & BIOL 2110L	Principles of Biology: Cellular and Molecular Biology and Principles of Biology: Cellular and Molecular Biology Laboratory	

BIOL 2610G & BIOL 2610L	Principles of Biology: Biodiversity, Ecology, and Evolution	
	and Principles of Biology: Biodiversity, Ecology, and Evolution Laboratory ¹	
CHEM 1120G	Introduction to Chemistry Lecture and Laboratory (non majors) ¹	
CHEM 1215G	General Chemistry I Lecture and Laboratory for STEM Majors ¹	
CHEM 1225G	General Chemistry II Lecture and Laboratory for STEM Majors ¹	
ENVS 1110G	Environmental Science I 1	
GEOG 1110G	Physical Geography	
GEOL 1110G	Physical Geology ¹	
or GEOL 1110G	Physical Geology	
PHYS 1115G	Survey of Physics with Lab ¹	
PHYS 1125G	Physics of Music ¹	
PHYS 1230G	Algebra-Based Physics I	
& PHYS 1230L	and Algebra-Based Physics I Lab ¹	
PHYS 1240G	Algebra-Based Physics II	
& PHYS 1240L	and Algebra-Based Physics II Lab ¹	
Area V: Humanities		
HIST 1130G	World History I 1, 2	3
or HIST 1140G	World History II	
Area VI: Creative and Fir	ne Arts	
Select one course from		3
ARTH 1115G	Orientation in Art ¹	
MUSC 1130G	Music Appreciation: Western Music ¹	
MUSC 1110G	Music Appreciation: Jazz ¹	
THEA 1110G	Introduction to Theatre ¹	
General Education Elect		
HIST 1110G	United States History I ^{1,2}	3
or HIST 1120G	United States History II	
Core Requirements		
MATH 1134	Fundamentals of Elementary Mathematics I 2,*	3
MATH 1215	Intermediate Algebra ²	3
Select one course from	the following:	3
GEOG 1120G	World Regional Geography ¹	
GEOG 1130G	Human Geography ¹	
POLS 1110G	Introduction to Political Science 1	
POLS 1120G	American National Government ¹	
Major Requirements		
Professional Requireme		
CEPY 1120G	Human Growth and Behavior ^{1, 2}	3
BLED 1110	Introduction n Bilingual Education/ESL	3
BLED 2110	Bilingual Methods ^{1, 2, 4, *}	3
EDLT 2110	Integrating Technology with Teaching (This course is counted as EDLT 368 for Elementary Special Education Majors) ^{1, 2, *}	3
Electives, to bring the t		6
	Teaching Field (Special Education)	
Total Credits	- · · · · · · · · · · · · · · · · · · ·	60
		50

- Courses are part of The New Mexico General Education Requirements.
- ² This course must be completed with a grade of C- or better.
- ³ These courses count toward the Language Arts Teaching Field.
- These courses count toward the Bilingual/TESOL endorsement.

* Courses with an (#) are pre-requisites for Teacher Education Program (TEP) admission.

(60 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses, along with those designated in footnote 2 on previous page.

Course Semester 1	Title	Credits
Area I: Communication	ns - English Composition Level 1	4
ENGL 1110G	Composition I	
Area IV: Social/Behavi	oral Sciences	3
CEPY 1120G	Human Growth and Behavior	
Area V: Humanities		3
HIST 1130G or HIST 1140G	World History I or World History II	
MATH 1215	Intermediate Algebra	3
Semester 2 Area I: Communication	Credits ns - English Composition Level 2	13
ENGL 2221G	Writing in the Humanities and Social Science	
Area III: Laboratory Sc 8 credits from differen	iences - Choose one from the following (total of t prefixes/areas):	4
ASTR 1115G	Introduction Astro (lec+lab)	
ASTR 1120G	The Planets	
BIOL 1120G & BIOL 1120L	Human Biology and Human Biology Laboratory	
BIOL 1190G	Contemporary Problems in Biology	
BIOL 2110G & BIOL 2110L	Principles of Biology: Cellular and Molecular Biology and Principles of Biology: Cellular and Molecular Biology Laboratory	
BIOL 2610G & BIOL 2610L	Principles of Biology: Biodiversity, Ecology, and Evolution and Principles of Biology: Biodiversity, Ecology, and Evolution Laboratory	
CHEM 1120G	Introduction to Chemistry Lecture and Laboratory (non majors)	
CHEM 1215G	General Chemistry I Lecture and Laboratory for STEM Majors	
CHEM 1225G	General Chemistry II Lecture and Laboratory for STEM Majors	
ENVS 1110G	Environmental Science I	
GEOG 1110G	Physical Geography	
GEOL 1110G	Physical Geology	
PHYS 1115G	Survey of Physics with Lab	

PHYS 1230G Algebra-Based Physics I and Algebra-Based Physics II Lab PHYS 1240G Algebra-Based Physics II Lab PHYS 1240G Algebra-Based Physics II Lab Area IV Social/Behavioral Sciences - Choose one from the following: 3 GEOG 1120G World Regional Geography GEOG 1130G Human Geography POLS 1110G Introduction to Political Science POLS 1120G American National Government General Education Elective - Area V: Humanities 3 HIST 1110G United States History I or HIST 1120G or United States History II MATH 1134 Fundamentals of Elementary Mathematics I 3 Credits 16 Semester 3 Area I: Communications - Oral Communications 3 COMM 1115G Introduction to Communication or COMM 1130G or Public Speaking Area II: Mathematics 3 Area II: Mathematics 4 Area III: Laboratory Sciences - Choose one from the following (total of 4 8 credits from different prefixes/areas): ASTR 1115G Introduction Astro (lec+lab) ASTR 1120G The Planets BIOL 1120G Human Biology or BIOL 1120L Or Human Biology Laboratory BIOL 2110G Principles of Biology: Cellular and Molecular Biology and Principles of Biology: Cellular and Molecular Biology Laboratory BIOL 2610G Principles of Biology: Biodiversity, Ecology, and Evolution Laboratory (non majors) CHEM 1225G General Chemistry I Lecture and Laboratory for STEM Majors ENVS 1110G Physical Geography GEOGRAPH Albert 4 Area III: Albert 1215G General Chemistry I Lecture and Laboratory for STEM Majors ENVS 1110G Physical Geography GEOGRAPH 1226G General Chemistry I Lecture and Laboratory for STEM Majors ENVS 1110G Physical Geography GEOGRAPH 1226G General Chemistry I Lecture and Laboratory for STEM Majors ENVS 1110G Physical Geography GEOGRAPH 1226G General Chemistry I Lecture and Laboratory for STEM Majors ENVS 1110G Physical Geography GEOGRAPH 1226G General Chemistry I Lecture and Laboratory for STEM Majors ENVS 1110G Environmental Science I GEOGRAPH 1226G General Chemistry I Lecture and Laboratory for STEM Majors LING 2110G Physical Geography GEOGRAPH 1226G General Chemistry I	PHYS 1125G	Physics of Music	
PHYS 1240G Algebra-Based Physics II ab Area IV: Social/Behavioral Sciences - Choose one from the following: GEOG 1120G World Regional Geography GEOG 1130G Human Geography POLS 1110G Introduction to Political Science POLS 1120G American National Government General Education Elective - Area V. Humanities 3 HIST 1110G United States History II or HIST 1120G or United States History II MATH 1134 Fundamentals of Elementary Mathematics I 3 Credits 16 Semester 3 Area I: Communications - Oral Communications 3 COMM 1115G Introduction to Communication or COMM 1130G or Public Speaking Area II: Mathematics 3 MATH 2134G Fundamentals of Elementary Math II Area III: Laboratory Sciences - Choose one from the following (total of 8 credits from different prefixes/areas): ASTR 1115G Introduction Astro (lee+lab) ASTR 1120G The Planets BIOL 1120L or Human Biology and Principles of Biology. Cellular and Molecular Biology BIOL 2110G Principles of Biology. Cellular and Molecular Biology and Principles of Biology. Biodiversity, Ecology, and Evolution Laboratory CHEM 1120G Introduction Chemistry Lecture and Laboratory for STEM Majors CHEM 1225G General Chemistry I Lecture and Laboratory for STEM Majors ENVS 1110G Physical Geography GEOG 1110G Physical Geography GEOL 1110G Physical Geology PHYS 1125G Physics of Music PHYS 1240L Algebra-Based Physics I Lab PHYS 1240L Algebra-Based Physics I Lab PHYS 1240L Bilingual Methods 3 BLED 2110 Bilingual Introduction to the Study of Language and Linguistics	PHYS 1230G	•	
Area IV. Social/Behavioral Sciences - Choose one from the following: GEOG 1120G World Regional Geography GEOG 1130G Human Geography POLS 1110G Introduction to Political Science POLS 1120G American National Government General Education Elective - Area V. Humanities 3 HIST 1110G United States History I or United States History I Or HIST 1120G or United States History I MATH 1134 Fundamentals of Elementary Mathematics I 3 Credits 16 Semester 3 Area I: Communications - Oral Communications 3 COMM 1115G Introduction to Communication or COMM 1130G or Public Speaking Area III. Laboratory Sciences - Choose one from the following (total of 8 credits from different prefixes/areas): ASTR 1115G Introduction 4 to (ec+lab) ASTR 1120G The Planets BIOL 1120L The Human Biology BIOL 2110G Principles of Biology. Cellular and Molecular Biology Laboratory BIOL 1210G Principles of Biology. Biodiversity, Ecology, and Principles of Biology Biodiversity, Ecology, and Principles of Biology Biodiversity, Ecology, and Principles of Biology. Biodiversity, Ecology, and Principles of Biology. Biodiversity, Ecology, and Principles of Biology. Biodiversity, Ecology, and Principles of Biology Biodiversity, Ecology, and Evolution and Principles of Biology. Biodiversity, Ecology, and Evolution and Principles of Biology. Biodiversity, Ecology, and Evolution to Chemistry I Lecture and Laboratory for STEM Majors CHEM 1225G General Chemistry I Lecture and Laboratory for STEM Majors ENVS 1110G Physical Geography GEOL		•	
GEOG 1120G World Regional Geography GEOG 1130G Human Geography POLS 1110G Introduction to Political Science PDLS 1120G American National Government General Education Elective - Area V. Humanities 3 HIST 1110G United States History I or United States History II OR HIST 1120G OR HIST 1120G OR United States History II OR HIST 1130G OR HUMAN II OR HIST 1130G OR HUMAN II OR HIST 1130G OR HUMAN II OR HIST 1130G FUNDAM II OR HUMAN II OR HIST 1120G OR HUMAN BIOLOGY OR BIOL 1120G Human Biology OR BIOL 1120G Human Biology OR BIOL 1120G Principles of Biology. Cellular and Molecular Biology BIOL 2110G Principles of Biology. Cellular and Molecular Biology BIOL 2610G Principles of Biology. Biodiversity, Ecology, and Principles of Biology. Biodiversity, Ecology, and Principles of Biology. Biodiversity, Ecology, and Evolution And Principles of Biology. Biodiversity, Ecology, and Evolution Laboratory CHEM 1120G Introduction to Chemistry Lecture and Laboratory for STEM Majors CHEM 1225G General Chemistry I Lecture and Laboratory for STEM Majors ENVS 1110G Environmental Science I GEOG 1110G Physical Geography GEOL 1110G Physical Geography GEOL 1110G Physical Geography GEOL 1110G Physics of Music PHYS 1230G Algebra-Based Physics II APHYS 1240G Algebra-Based Physics II BLED 1110 Introduction no Bilingual Education/ESL APHYS 1240L And Algebra-Based Physics II BLED 1110 Bilingual Methods 3 Credits 16 Semester 4 Area IV. Social/Behavioral Sciences 1 LING 2110G Introduction to the Study of Language and Linguistics		,	
GEOG 1130G Human Geography POLS 1110G Introduction to Political Science POLS 1110G American National Government General Education Elective - Area V. Humanities 3 HIST 1110G United States History I or HIST 1120G or United States History II MATH 1134 Fundamentals of Elementary Mathematics I 3 Credits 16 Semester 3 Area I: Communications - Oral Communications 3 COMM 1115G Introduction to Communication or COMM 1130G or Public Speaking Area II: Mathematics Introduction to Communication or COMM 1130G or Public Speaking Area III: Laboratory Sciences - Choose one from the following (total of 8 credits from different prefixes/areas): ASTR 1115G Introduction Astro (lec+lab) ASTR 1120G The Planets BIOL 1120G The Planets BIOL 1120G The Planets BIOL 1120G Principles of Biology Laboratory or BIOL 1120L Biology and Principles of Biology Cellular and Molecular Biology and Principles of Biology Laboratory BIOL 2610G Principles of Biology Laboratory BIOL 2610L Principles of Biology Biodiversity, Ecology, and Evolution Laboratory CHEM 1120G Introduction to Chemistry Lecture and Laboratory for STEM Majors CHEM 1215G General Chemistry II Lecture and Laboratory for STEM Majors CHEM 1225G General Chemistry II Lecture and Laboratory for STEM Majors ENVS 1110G Environmental Science I GEOG 1110G Physical Geography GEOL 1110G Physical Geography GEOL 1110G Physical Geography GEOL 1110G Physical Geography GEOL 1110G Physical Geology PHYS 1125G Physics of Music PHYS 1230G Algebra-Based Physics I Lab PHYS 1240G Algebra-Based Physics II Lab BLED 1110 Introduction to the Study of Language and Linguistics	Area IV: Social/Behavio	oral Sciences - Choose one from the following:	3
POLS 1110G Introduction to Political Science POLS 1120G American National Government General Education Elective - Area V. Humanities 3 HIST 1110G United States History I or HIST 1120G or United States History II MATH 1134 Fundamentals of Elementary Mathematics I 3 Credits 16 Semester 3 Area I: Communications - Oral Communications 3 COMM 1115G Introduction to Communication or COMM 1130G or Public Speaking Area II: Mathematics 3 MATH 2134G Fundamentals of Elementary Math II Area III: Laboratory Sciences - Choose one from the following (total of 8 credits from different prefixes/areas): ASTR 1115G Introduction Astro (lec+lab) ASTR 1120G The Planets BIOL 1120G Human Biology or BIOL 1120L or Human Biology Cellular and Molecular Biology BIOL 2110G Principles of Biology. Cellular and Molecular Biology and Principles of Biology. Cellular and Molecular Biology and Principles of Biology. Cellular and Molecular Biology and Principles of Biology Biodiversity, Ecology, and Evolution and Principles of Biology Biodiversity, Ecology, and Evolution Laboratory CHEM 1120G Introduction to Chemistry Lecture and Laboratory for STEM Majors CHEM 125G General Chemistry I Lecture and Laboratory for STEM Majors CHEM 125G General Chemistry II Lecture and Laboratory for STEM Majors ENVS 1110G Physical Geography GEOL 1110G Physical Geography GEOL 1110G Physical Geography GEOL 1110G Physical Geography GEOL 1110G Physica Geography GEOL 1110G Physics of Music PHYS 1230G Algebra-Based Physics I Lab PHYS 1240G Algebra-Based Physics I Lab PHYS 1240G Algebra-Based Physics II Lab BLED 1110 Bilingual Methods 3 Emester 4 Area IX-Social/Behavioral Sciences 3 LING 2110G Introduction to the Study of Language and Linguistics	GEOG 1120G	World Regional Geography	
POLS 1120G American National Government General Education Elective - Area V. Humanities 3 HIST 1110G United States History I or United States History II MATH 1134 Fundamentals of Elementary Mathematics I 3 Credits 16 Semester 3 Area I: Communications - Oral Communications 3 COMM 1113G Introduction to Communication or COMM 1130G or Public Speaking Area II: Mathematics 3 Area II: Mathematics 3 ASTR 1124G Fundamentals of Elementary Math II Area III: Laboratory Sciences - Choose one from the following (total of 4 Acredits from different prefixes/areas): ASTR 1115G Introduction Astro (lec+lab) ASTR 1120G The Planets BIOL 1120G Human Biology Or BIOL 1120L or Human Biology Laboratory BIOL 2110G Principles of Biology: Cellular and Molecular Biology and Principles of Biology: Cellular and Molecular Biology and Principles of Biology: Bioliversity, Ecology, and Evolution Laboratory BIOL 2610G Principles of Biology: Biodiversity, Ecology, and Evolution Laboratory CHEM 1120G Introduction to Chemistry Lecture and Laboratory for STEM Majors CHEM 1225G General Chemistry II Lecture and Laboratory for STEM Majors CHEM 1225G General Chemistry II Lecture and Laboratory for STEM Majors ENVS 1110G Physical Geology PHYS 1125G Physics of Music PHYS 1125G Physics of Music PHYS 1230C Algebra-Based Physics I Lab PHYS 1240C Algebra-Based Physics I Lab PHYS 1240L and Algebra-Based Physics I Lab PHYS 1240L Bilingual Methods 3 Credits Introduction to the Study of Language and Linguistics	GEOG 1130G	Human Geography	
General Education Elective - Area V: Humanities HIST 1110G United States History I or HIST 1120G United States History II MATH 1134 Fundamentals of Elementary Mathematics I 3 Credits 16 Semester 3 Area I: Communications - Oral Communications 3 COMM 1115G Introduction to Communication or COMM 1130G or Public Speaking Area II: Mathematics 3 MATH 2134G Fundamentals of Elementary Math II Area III: Laboratory Sciences - Choose one from the following (total of 4 8 credits from different prefixes/areas): ASTR 1120G The Planets BIOL 1120G Human Biology Or Human Biology Cellular and Molecular Biology and Principles of Biology: Cellular and Molecular Biology and Principles of Biology: Cellular and Molecular Biology And Principles of Biology: Biodiversity, Ecology, and Evolution and Principles of Biology: Biodiversity, Ecology, and Evolution Laboratory CHEM 1120G Introduction to Chemistry Lecture and Laboratory for STEM Majors CHEM 1215G General Chemistry I Lecture and Laboratory for STEM Majors CHEM 1225G General Chemistry II Lecture and Laboratory for STEM Majors ENVS 1110G Environmental Science I GEOG 1110G Physical Geology PHYS 1125G Physics of Geology PHYS 1125G Physics of Music PHYS 1230G Algebra-Based Physics II ab PHYS 1240G Algebra-Based Physics II ab PHYS 1240G Algebra-Based Physics II Lab BLED 1110 Bilingual Methods 3 Credits 16 Semester 4 Area IV: Social/Behavioral Sciences 3 LING 2110G Introduction to the Study of Language and Linguistics	POLS 1110G	Introduction to Political Science	
HIST 1110G or HIST 1120G or United States History I or United States History II MATH 1134 Fundamentals of Elementary Mathematics I 16 Semester 3 Area I: Communications - Oral Communications 3 COMM 1115G Introduction to Communication or COMM 1130G or Or Public Speaking Area II: Mathematics 3 Area II: Laboratory Sciences - Choose one from the following (total of 8 credits from different prefixes/areas): ASTR 1115G Introduction Astro (lec-Hab) ASTR 11120G The Planets BIOL 1120G Human Biology Or BIOL 1120L Or Human Biology Laboratory BIOL 1190G Contemporary Problems in Biology BIOL 2110L Biology and Principles of Biology. Cellular and Molecular Biology and Principles of Biology Biodiversity, Ecology, and Evolution Laboratory BIOL 2610G Principles of Biology Biodiversity, Ecology, and Evolution Laboratory CHEM 1120G Introduction to Chemistry Lecture and Laboratory for STEM Majors CHEM 1225G General Chemistry II Lecture and Laboratory for STEM Majors ENVS 1110G Environmental Science I GEOG 1110G Physical Geography GEOL 1110G Physical Geography GEOL 1110G Physical Geology PHYS 1125G Physics of Music PHYS 1230G Algebra-Based Physics II Lab PHYS 1240G Algebra-Based Physics II Lab BLED 1110 Introduction n Bilingual Education/ESL 3 BLED 2110 Bilingual Methods 3 Credits 16 Semester 4 Area IV. Social/Behavioral Sciences 3 LING 2110G Introduction to the Study of Language and Linguistics	POLS 1120G	American National Government	
or HIST 1120G or United States History II MATH 1134 Fundamentals of Elementary Mathematics I 3 Credits 16 Semester 3 Area I: Communications - Oral Communications 3 COMM 11186 Introduction to Communication or COMM 1130G or Public Speaking Area II: Mathematics 3 MATH 2134G Fundamentals of Elementary Math II Area III: Laboratory Sciences - Choose one from the following (total of 4 8 credits from different prefixes/areas): ASTR 1115G Introduction Astro (lec+lab) ASTR 1120G The Planets BIOL 1120G Human Biology or BIOL 1120L or Human Biology Laboratory BIOL 1190G Contemporary Problems in Biology BIOL 2110G Principles of Biology. Cellular and Molecular Biology and Principles of Biology. Cellular and Molecular Biology and Principles of Biology. Biodiversity, Ecology, and Evolution and Principles of Biology. Biodiversity, Ecology, and Evolution Laboratory CHEM 1120G Introduction to Chemistry Lecture and Laboratory for STEM Majors CHEM 1225G General Chemistry I Lecture and Laboratory for STEM Majors CHEM 1225G General Chemistry II Lecture and Laboratory for STEM Majors ENVS 1110G Environmental Science I GEOG 1110G Physical Geology PHYS 1115G Survey of Physics With Lab PHYS 1230G Algebra-Based Physics I and Algebra-Based Physics I and Algebra-Based Physics I Lab PHYS 1240G Algebra-Based Physics I Lab PHYS 1240G Algebra-Based Physics I Lab BLED 1110 Introduction n Bilingual Education/ESL 3 BLED 2110 Bilingual Methods 3 Credits 16 Semester 4 Area IV. Social/Behavioral Sciences 3 LING 2110G Introduction to the Study of Language and Linguistics	General Education Elec	ctive - Area V: Humanities	3
Credits 16 Semester 3 Area I: Communications - Oral Communications 3 COMM 11136 Introduction to Communication or COMM 1130G or Public Speaking Area II: Mathematics 3 MATH 2134G Fundamentals of Elementary Math II Area III: Laboratory Sciences - Choose one from the following (total of 8 credits from different prefixes/areas): ASTR 1115G Introduction Astro (lec+lab) ASTR 11120G Human Biology Or BIOL 1120G Human Biology Or BIOL 1120L Biology BIOL 2110G Principles of Biology: Cellular and Molecular Biology and Principles of Biology Laboratory BIOL 2610G Principles of Biology: Biodiversity, Ecology, and Evolution and Principles of Biology: Biodiversity, Ecology, and Evolution Laboratory CHEM 1120G Introduction to Chemistry Lecture and Laboratory for STEM Majors CHEM 125G General Chemistry I Lecture and Laboratory for STEM Majors CHEM 125G General Chemistry II Lecture and Laboratory for STEM Majors ENVS 1110G Environmental Science I GEOG 1110G Physical Geography GEOL 1110G Physical Geology PHYS 1125G Physics of Music PHYS 1230G Algebra-Based Physics I & PHYS 1240G Algebra-Based Physics I & PHYS 1240G Algebra-Based Physics II & PHYS 1240G Algebra-Based Phys		•	
Semester 3 Area I: Communications - Oral Communications COMM 1115G Introduction to Communication or COMM 1130G or Public Speaking Area II: Mathematics 3 MATH 2134G Fundamentals of Elementary Math II Area III: Laboratory Sciences - Choose one from the following (total of 4 8 credits from different prefixes/areas): ASTR 1115G Introduction Astro (lec+lab) ASTR 1120G The Planets BIOL 1120G Human Biology or BIOL 1120L Gorthuman Biology or BIOL 1190G Contemporary Problems in Biology BIOL 2110L Biology and Principles of Biology: Cellular and Molecular Biology and Principles of Biology: Cellular and Molecular Biology and Principles of Biology: Biodiversity, Ecology, and Evolution and Principles of Biology: Biodiversity, Ecology, and Evolution and Principles of Biology: Biodiversity, Ecology, and Evolution Laboratory CHEM 1120G Introduction to Chemistry Lecture and Laboratory for STEM Majors CHEM 1225G General Chemistry I Lecture and Laboratory for STEM Majors CHEM 1225G General Chemistry II Lecture and Laboratory for STEM Majors ENVS 1110G Environmental Science I GEOG 1110G Physical Geology PHYS 1115G Survey of Physics with Lab PHYS 1230G Algebra-Based Physics I Lab PHYS 1240G Algebra-Based Physics I Lab PHYS 1240G Algebra-Based Physics I Lab PHYS 1240G Algebra-Based Physics II Lab BLED 1110 Introduction n Bilingual Education/ESL 3 BLED 2110 Bilingual Methods 3 Credits 16 Semester 4 Area IV. Social/Behavioral Sciences 3 LING 2110G Introduction to the Study of Language and Linguistics	MATH 1134	Fundamentals of Elementary Mathematics I	3
Area I: Communications - Oral Communications COMM 1115G		Credits	16
COMM 1115G Introduction to Communication or COMM 1130G or Public Speaking Area II: Mathematics 3 MATH 2134G Fundamentals of Elementary Math II Area III: Laboratory Sciences - Choose one from the following (total of 4 8 credits from different prefixes/areas): ASTR 1115G Introduction Astro (lec+lab) ASTR 11120G The Planets BIOL 1120G Human Biology or BIOL 1120L or Human Biology Cortemporary Problems in Biology BIOL 2110G Principles of Biology: Cellular and Molecular Biology BIOL 2110L Biology and Principles of Biology: Cellular and Molecular Biology Laboratory BIOL 2610G Principles of Biology: Biodiversity, Ecology, and Evolution and Principles of Biology: Biodiversity, Ecology, and Evolution and Principles of Biology: Biodiversity, Ecology, and Evolution Laboratory CHEM 1120G Introduction to Chemistry Lecture and Laboratory for STEM Majors CHEM 1225G General Chemistry I Lecture and Laboratory for STEM Majors CHEM 1225G General Chemistry II Lecture and Laboratory for STEM Majors ENVS 1110G Environmental Science I GEOG 1110G Physical Geology PHYS 1125G Physica Geolography GEOL 1110G Physical Geology PHYS 1125G Physics of Music PHYS 1230G Algebra-Based Physics I Lab PHYS 1230G Algebra-Based Physics II Lab BLED 1110 Introduction n Bilingual Education/ESL 3 BLED 2110 Bilingual Methods 3 Credits 16 Semester 4 Area IV. Social/Behavioral Sciences 3 LING 2110G Introduction to the Study of Language and Linguistics	Semester 3		
COMM 1115G Introduction to Communication or COMM 1130G or Public Speaking Area II: Mathematics 33 MATH 2134G Fundamentals of Elementary Math II Area III: Laboratory Sciences - Choose one from the following (total of 4 8 credits from different prefixes/areas): ASTR 1115G Introduction Astro (lec+lab) ASTR 11120G The Planets BIOL 1120G Human Biology or BIOL 1120L or Human Biology Laboratory BIOL 1190G Contemporary Problems in Biology BIOL 2110D Principles of Biology: Cellular and Molecular Biology and Principles of Biology: Cellular and Molecular Biology Laboratory BIOL 2610G Principles of Biology: Biodiversity, Ecology, and Evolution and Principles of Biology: Biodiversity, Ecology, and Evolution and Principles of Biology: Biodiversity, Ecology, and Evolution Laboratory CHEM 1120G Introduction to Chemistry Lecture and Laboratory for STEM Majors CHEM 1225G General Chemistry I Lecture and Laboratory for STEM Majors CHEM 1225G General Chemistry II Lecture and Laboratory for STEM Majors ENVS 1110G Environmental Science I GEOG 1110G Physical Geology PHYS 1125G Physica Geolography GEOL 1110G Physical Geology PHYS 1125G Physics of Music PHYS 1230G Algebra-Based Physics I and Algebra-Based Physics I Lab PHYS 1240G Algebra-Based Physics II Lab BLED 1110 Introduction n Bilingual Education/ESL 3 BLED 2110 Bilingual Methods 3 Credits 16 Semester 4 Area IV. Social/Behavioral Sciences 3 LING 2110G Introduction to the Study of Language and Linguistics	Area I: Communication	ns - Oral Communications	3
Area II: Mathematics MATH 2134G Fundamentals of Elementary Math II Area III: Laboratory Sciences - Choose one from the following (total of 8 credits from different prefixes/areas): ASTR 1115G Introduction Astro (lec+lab) ASTR 1120G The Planets BIOL 1120G Human Biology or BIOL 1120L Or Human Biology Laboratory BIOL 2110G BIOL 2110G BIOL 2110L Biology and Principles of Biology: Cellular and Molecular Biology and Principles of Biology: Cellular and Molecular Biology BIOL 2610G BIOL 2610C BIOL 2610C BIOL 2610L B	COMM 1115G	Introduction to Communication	-
MATH 2134G Fundamentals of Elementary Math II Area III: Laboratory Sciences - Choose one from the following (total of 8 credits from different prefixes/areas): ASTR 1115G Introduction Astro (lec+lab) ASTR 1120G The Planets BIOL 1120G Human Biology or BIOL 1120L Or Human Biology Laboratory BIOL 1190G Contemporary Problems in Biology BIOL 2110G Principles of Biology. Cellular and Molecular & BIOL 2110L Biology and Principles of Biology. Cellular and Molecular Biology and Principles of Biology. Biodiversity, Ecology, and Evolution and Principles of Biology. Biodiversity, Ecology, and Evolution and Principles of Biology. Biodiversity, Ecology, and Evolution Laboratory CHEM 1120G Introduction to Chemistry Lecture and Laboratory for STEM Majors CHEM 1225G General Chemistry I Lecture and Laboratory for STEM Majors CHEM 1225G General Chemistry II Lecture and Laboratory for STEM Majors ENVS 1110G Environmental Science I GEOG 1110G Physical Geology PHYS 1115G Survey of Physics with Lab PHYS 1125G Physics of Music PHYS 1230C Algebra-Based Physics I & PHYS 1230L and Algebra-Based Physics I Lab PHYS 1240G Algebra-Based Physics II Lab BLED 1110 Introduction n Bilingual Education/ESL 3 BLED 2110 Bilingual Methods 3 Credits 16 Semester 4 Area IV. Social/Behavioral Sciences 3 LING 2110G Introduction to the Study of Language and Linguistics		o or rubiic speaking	2
Area III: Laboratory Sciences - Choose one from the following (total of 8 credits from different prefixes/areas): ASTR 1115G Introduction Astro (lec+lab) ASTR 1120G The Planets BIOL 1120G Human Biology or BIOL 1120L Contemporary Problems in Biology BIOL 2110G Principles of Biology. Cellular and Molecular & BIOL 2110L Biology and Principles of Biology. Cellular and Molecular Biology Laboratory BIOL 2610G Principles of Biology. Biodiversity, Ecology, and Principles of Biology. Biodiversity, Ecology, and Principles of Biology. Biodiversity, Ecology, and Evolution and Principles of Biology. Biodiversity, Ecology, and Evolution Laboratory CHEM 1120G Introduction to Chemistry Lecture and Laboratory for STEM Majors CHEM 1225G General Chemistry I Lecture and Laboratory for STEM Majors ENVS 1110G Environmental Science I GEOG 1110G Physical Geography GEOL 1110G Physical Geology PHYS 1125G Physics of Music PHYS 1230G Algebra-Based Physics I Lab PHYS 1240G Algebra-Based Physics I Lab PHYS 1240G Algebra-Based Physics II Lab BLED 1110 Introduction n Bilingual Education/ESL 3 BLED 2110 Bilingual Methods 3 Credits Introduction to the Study of Language and Linguistics		Tundamentals of Flamentan, Math II	3
8 credits from different prefixes/areas): ASTR 1115G Introduction Astro (lec+lab) ASTR 1120G The Planets BIOL 1120G Human Biology or BIOL 1120L Contemporary Problems in Biology BIOL 2110G Principles of Biology. Cellular and Molecular Biology and Principles of Biology. Cellular and Molecular Biology Laboratory BIOL 2110L Biology and Principles of Biology. Cellular and Molecular Biology Laboratory BIOL 2610G Principles of Biology. Biodiversity, Ecology, and Evolution and Principles of Biology. Biodiversity, Ecology, and Evolution Laboratory CHEM 1120G Introduction to Chemistry Lecture and Laboratory for STEM Majors CHEM 1225G General Chemistry I Lecture and Laboratory for STEM Majors ENVS 1110G Environmental Science I GEOG 1110G Physical Geography GEOL 1110G Physical Geology PHYS 1125G Physics of Music PHYS 1230G Algebra-Based Physics I Lab PHYS 1240G Algebra-Based Physics I Lab PHYS 1240L and Algebra-Based Physics II Lab BLED 1110 Introduction n Bilingual Education/ESL 3 BLED 2110 Bilingual Methods 3 Credits Introduction to the Study of Language and Linguistics		·	4
ASTR 1120G The Planets BIOL 1120G or BIOL 1120L Or Human Biology or Human Biology BIOL 2110G Principles of Biology. Cellular and Molecular Biology and Principles of Biology. Cellular and Molecular Biology and Principles of Biology. Cellular and Molecular Biology and Principles of Biology. Cellular and Molecular Biology Laboratory BIOL 2610G Principles of Biology. Biodiversity, Ecology, and Evolution and Principles of Biology. Biodiversity, Ecology, and Evolution Laboratory CHEM 1120G Introduction to Chemistry Lecture and Laboratory (non majors) CHEM 1215G General Chemistry I Lecture and Laboratory for STEM Majors CHEM 1225G General Chemistry II Lecture and Laboratory for STEM Majors ENVS 1110G Environmental Science I GEOG 1110G Physical Geography GEOL 1110G Physical Geography GEOL 1110G Physics of Music PHYS 1125G Physics of Music PHYS 1230G Algebra-Based Physics I Algebra-Based Physics I Lab PHYS 1240G Algebra-Based Physics II Lab BLED 1110 Introduction n Bilingual Education/ESL 3 BLED 2110 Bilingual Methods 3 Credits 16 Semester 4 Area IV: Social/Behavioral Sciences 3 LING 2110G Introduction to the Study of Language and Linguistics	•	2 1	4
BIOL 1120G or BIOL 1120L Or Human Biology or Homan Biology BIOL 2110G BIOL 2110G BIOL 2110L Biology BIOL 2110L Biology and Principles of Biology. Cellular and Molecular Biology and Principles of Biology. Cellular and Molecular Biology Laboratory BIOL 2610G BIOL 2610L Biology BIOL 2610L Biology BIOL 2610L Biology. Biodiversity, Ecology, and Evolution Laboratory CHEM 1120G Introduction to Chemistry Lecture and Laboratory (non majors) CHEM 1215G General Chemistry II Lecture and Laboratory for STEM Majors CHEM 1225G General Chemistry II Lecture and Laboratory for STEM Majors ENVS 1110G Environmental Science I GEOG 1110G Physical Geography GEOL 1110G Physical Geology PHYS 1115G Survey of Physics with Lab PHYS 1125G Physics of Music PHYS 1230G Algebra-Based Physics I Algebra-Based Physics II Algebra-Based Physics II Algebra-Based Physics II BPHYS 1240G Algebra-Based Physics II BPHYS 1240G Algebra-Based Physics II BPHYS 1240L BIING BIIntroduction n Bilingual Education/ESL BLED 1110 Bilingual Methods 3 Credits 16 Semester 4 Area IV: Social/Behavioral Sciences 3 LING 2110G Introduction to the Study of Language and Linguistics	ASTR 1115G	Introduction Astro (lec+lab)	
or BIOL 1120L or Human Biology Laboratory BIOL 1190G Contemporary Problems in Biology BIOL 2110G Principles of Biology. Cellular and Molecular Biology and Principles of Biology. Cellular and Molecular Biology Laboratory BIOL 2610G Principles of Biology. Biodiversity, Ecology, and Evolution and Principles of Biology. Biodiversity, Ecology, and Evolution Laboratory CHEM 1120G Introduction to Chemistry Lecture and Laboratory for STEM Majors CHEM 1215G General Chemistry I Lecture and Laboratory for STEM Majors CHEM 1225G General Chemistry II Lecture and Laboratory for STEM Majors ENVS 1110G Environmental Science I GEOG 1110G Physical Geology PHYS 1115G Survey of Physics with Lab PHYS 1125G Physics of Music PHYS 1230G Algebra-Based Physics I & PHYS 1230L and Algebra-Based Physics II & PHYS 1240G Algebra-Based Physics II & PHYS 1240L and Algebra-Based Physics II Lab BLED 1110 Introduction n Bilingual Education/ESL 3 BLED 2110 Bilingual Methods 3 Credits 16 Semester 4 Area IV: Social/Behavioral Sciences 3 LING 2110G Introduction to the Study of Language and Linguistics	ASTR 1120G	The Planets	
BIOL 2110G Principles of Biology. Cellular and Molecular Biology and Principles of Biology. Cellular and Molecular Biology Laboratory BIOL 2610G Principles of Biology. Biodiversity, Ecology, and Evolution and Principles of Biology. Biodiversity, Ecology, and Evolution Laboratory CHEM 1120G Introduction to Chemistry Lecture and Laboratory (non majors) CHEM 1215G General Chemistry I Lecture and Laboratory for STEM Majors CHEM 1225G General Chemistry II Lecture and Laboratory for STEM Majors ENVS 1110G Environmental Science I GEOG 1110G Physical Geography GEOL 1110G Physical Geology PHYS 1125G Physics of Music PHYS 1230G Algebra-Based Physics I & PHYS 1230L and Algebra-Based Physics II Lab PHYS 1240L Algebra-Based Physics II Lab BLED 1110 Introduction n Bilingual Education/ESL 3 BLED 2110 Bilingual Methods 3 Credits 16 Semester 4 Area IV: Social/Behavioral Sciences 3 LING 2110G Introduction to the Study of Language and Linguistics			
& BIOL 2110L Biology and Principles of Biology: Cellular and Molecular Biology Laboratory BIOL 2610G Principles of Biology: Biodiversity, Ecology, and Evolution and Principles of Biology: Biodiversity, Ecology, and Evolution Laboratory CHEM 1120G Introduction to Chemistry Lecture and Laboratory (non majors) CHEM 1215G General Chemistry I Lecture and Laboratory for STEM Majors CHEM 1225G General Chemistry II Lecture and Laboratory for STEM Majors ENVS 1110G Environmental Science I GEOG 1110G Physical Geography GEOL 1110G Physical Geology PHYS 1125G Physics of Music PHYS 1230G Algebra-Based Physics I & PHYS 1230L and Algebra-Based Physics II Lab PHYS 1240G Algebra-Based Physics II Lab BLED 1110 Introduction n Bilingual Education/ESL 3 BLED 2110 Bilingual Methods 3 Credits 16 Semester 4 Area IV: Social/Behavioral Sciences 3 LING 2110G Introduction to the Study of Language and Linguistics	BIOL 1190G	Contemporary Problems in Biology	
and Principles of Biology: Cellular and Molecular Biology Laboratory BIOL 2610G Principles of Biology: Biodiversity, Ecology, and & BIOL 2610L Evolution and Principles of Biology: Biodiversity, Ecology, and Evolution Laboratory CHEM 1120G Introduction to Chemistry Lecture and Laboratory (non majors) CHEM 1215G General Chemistry I Lecture and Laboratory for STEM Majors CHEM 1225G General Chemistry II Lecture and Laboratory for STEM Majors ENVS 1110G Environmental Science I GEOG 1110G Physical Geography GEOL 1110G Physical Geology PHYS 1115G Survey of Physics with Lab PHYS 1230G Algebra-Based Physics I & PHYS 1230L and Algebra-Based Physics I Lab PHYS 1240G Algebra-Based Physics II & PHYS 1240L and Algebra-Based Physics II Lab BLED 1110 Introduction n Bilingual Education/ESL 3 BLED 2110 Bilingual Methods 3 Credits 16 Semester 4 Area IV: Social/Behavioral Sciences 3 LING 2110G Introduction to the Study of Language and Linguistics	BIOL 2110G	Principles of Biology: Cellular and Molecular	
BIOL 2610G Principles of Biology: Biodiversity, Ecology, and Evolution and Principles of Biology: Biodiversity, Ecology, and Evolution Laboratory CHEM 1120G Introduction to Chemistry Lecture and Laboratory (non majors) CHEM 1215G General Chemistry I Lecture and Laboratory for STEM Majors CHEM 1225G General Chemistry II Lecture and Laboratory for STEM Majors ENVS 1110G Environmental Science I GEOG 1110G Physical Geography GEOL 1110G Physical Geology PHYS 1115G Survey of Physics with Lab PHYS 1230G Algebra-Based Physics I & PHYS 1230L and Algebra-Based Physics I Lab PHYS 1240G Algebra-Based Physics II Lab BLED 1110 Introduction n Bilingual Education/ESL 3 BLED 2110 Bilingual Methods 3 Credits 16 Semester 4 Area IV: Social/Behavioral Sciences 3 LING 2110G Introduction to the Study of Language and Linguistics	& BIOL 2110L	and Principles of Biology: Cellular and	
and Principles of Biology: Biodiversity, Ecology, and Evolution Laboratory CHEM 1120G Introduction to Chemistry Lecture and Laboratory (non majors) CHEM 1215G General Chemistry I Lecture and Laboratory for STEM Majors CHEM 1225G General Chemistry II Lecture and Laboratory for STEM Majors ENVS 1110G Environmental Science I GEOG 1110G Physical Geography GEOL 1110G Physical Geology PHYS 1115G Survey of Physics with Lab PHYS 1125G Physics of Music PHYS 1230G Algebra-Based Physics I & PHYS 1230L and Algebra-Based Physics I Lab PHYS 1240G Algebra-Based Physics II Lab BLED 1110 Introduction n Bilingual Education/ESL 3 BLED 2110 Bilingual Methods 3 Credits 16 Semester 4 Area IV: Social/Behavioral Sciences 3 LING 2110G Introduction to the Study of Language and Linguistics		Principles of Biology: Biodiversity, Ecology, and	
Laboratory (non majors) CHEM 1215G General Chemistry I Lecture and Laboratory for STEM Majors CHEM 1225G General Chemistry II Lecture and Laboratory for STEM Majors ENVS 1110G Environmental Science I GEOG 1110G Physical Geography GEOL 1110G Physical Geology PHYS 1115G Survey of Physics with Lab PHYS 1125G Physics of Music PHYS 1230G Algebra-Based Physics I & PHYS 1230L and Algebra-Based Physics I Lab PHYS 1240G Algebra-Based Physics II & PHYS 1240L and Algebra-Based Physics II Lab BLED 1110 Introduction n Bilingual Education/ESL 3 BLED 2110 Bilingual Methods 3 Credits 16 Semester 4 Area IV: Social/Behavioral Sciences 3 LING 2110G Introduction to the Study of Language and Linguistics	& BIOL 2010L	and Principles of Biology: Biodiversity, Ecology,	
STEM Majors CHEM 1225G General Chemistry II Lecture and Laboratory for STEM Majors ENVS 1110G Environmental Science I GEOG 1110G Physical Geography GEOL 1110G Physical Geology PHYS 1115G Survey of Physics with Lab PHYS 1125G Physics of Music PHYS 1230G Algebra-Based Physics I & PHYS 1230L and Algebra-Based Physics I Lab PHYS 1240G Algebra-Based Physics II & PHYS 1240L and Algebra-Based Physics II Lab BLED 1110 Introduction n Bilingual Education/ESL 3 BLED 2110 Bilingual Methods 3 Credits 16 Semester 4 Area IV: Social/Behavioral Sciences 3 LING 2110G Introduction to the Study of Language and Linguistics	CHEM 1120G		
for STEM Majors ENVS 1110G Environmental Science I GEOG 1110G Physical Geography GEOL 1110G Physical Geology PHYS 1115G Survey of Physics with Lab PHYS 1125G Physics of Music PHYS 1230G Algebra-Based Physics I & PHYS 1230L and Algebra-Based Physics I Lab PHYS 1240G Algebra-Based Physics II & PHYS 1240L and Algebra-Based Physics II Lab BLED 1110 Introduction n Bilingual Education/ESL 3 BLED 2110 Bilingual Methods 3 Credits 16 Semester 4 Area IV: Social/Behavioral Sciences 3 LING 2110G Introduction to the Study of Language and Linguistics	CHEM 1215G		
GEOG 1110G Physical Geography GEOL 1110G Physical Geology PHYS 1115G Survey of Physics with Lab PHYS 1125G Physics of Music PHYS 1230G Algebra-Based Physics I & PHYS 1230L and Algebra-Based Physics I Lab PHYS 1240G Algebra-Based Physics II & PHYS 1240L and Algebra-Based Physics II & PHYS 1240L Bilingual Education/ESL 3 BLED 1110 Bilingual Methods 3 Credits 16 Semester 4 Area IV: Social/Behavioral Sciences 3 LING 2110G Introduction to the Study of Language and Linguistics	CHEM 1225G		
GEOL 1110G Physical Geology PHYS 1115G Survey of Physics with Lab PHYS 1125G Physics of Music PHYS 1230G Algebra-Based Physics I & PHYS 1230L and Algebra-Based Physics I Lab PHYS 1240G Algebra-Based Physics II & PHYS 1240L and Algebra-Based Physics II Lab BLED 1110 Introduction n Bilingual Education/ESL 3 BLED 2110 Bilingual Methods 3 Credits 16 Semester 4 Area IV: Social/Behavioral Sciences 3 LING 2110G Introduction to the Study of Language and Linguistics	ENVS 1110G	Environmental Science I	
PHYS 1115G Survey of Physics with Lab PHYS 1125G Physics of Music PHYS 1230G Algebra-Based Physics I & PHYS 1230L and Algebra-Based Physics I Lab PHYS 1240G Algebra-Based Physics II & PHYS 1240L and Algebra-Based Physics II Lab BLED 1110 Introduction n Bilingual Education/ESL 3 BLED 2110 Bilingual Methods 3 Credits 16 Semester 4 Area IV: Social/Behavioral Sciences 3 LING 2110G Introduction to the Study of Language and Linguistics	GEOG 1110G	Physical Geography	
PHYS 1125G Physics of Music PHYS 1230G Algebra-Based Physics I & PHYS 1230L and Algebra-Based Physics I Lab PHYS 1240G Algebra-Based Physics II & PHYS 1240L and Algebra-Based Physics II Lab BLED 1110 Introduction n Bilingual Education/ESL 3 BLED 2110 Bilingual Methods 3 Credits 16 Semester 4 Area IV: Social/Behavioral Sciences 3 LING 2110G Introduction to the Study of Language and Linguistics	GEOL 1110G	Physical Geology	
PHYS 1230G Algebra-Based Physics I & PHYS 1230L and Algebra-Based Physics I Lab PHYS 1240G Algebra-Based Physics II & PHYS 1240L and Algebra-Based Physics II Lab BLED 1110 Introduction n Bilingual Education/ESL 3 BLED 2110 Bilingual Methods 3 Credits 16 Semester 4 Area IV: Social/Behavioral Sciences 3 LING 2110G Introduction to the Study of Language and Linguistics	PHYS 1115G	Survey of Physics with Lab	
& PHYS 1230L and Algebra-Based Physics I Lab PHYS 1240G Algebra-Based Physics II & PHYS 1240L and Algebra-Based Physics II Lab BLED 1110 Introduction n Bilingual Education/ESL 3 BLED 2110 Bilingual Methods 3 Credits 16 Semester 4 Area IV: Social/Behavioral Sciences 3 LING 2110G Introduction to the Study of Language and Linguistics	PHYS 1125G	Physics of Music	
PHYS 1240G Algebra-Based Physics II & PHYS 1240L and Algebra-Based Physics II Lab BLED 1110 Introduction n Bilingual Education/ESL 3 BLED 2110 Bilingual Methods 3 Credits 16 Semester 4 Area IV: Social/Behavioral Sciences 3 LING 2110G Introduction to the Study of Language and Linguistics	PHYS 1230G	Algebra-Based Physics I	
& PHYS 1240L and Algebra-Based Physics II Lab BLED 1110 Introduction n Bilingual Education/ESL 3 BLED 2110 Bilingual Methods 3 Credits 16 Semester 4 Area IV: Social/Behavioral Sciences 3 LING 2110G Introduction to the Study of Language and Linguistics		•	
BLED 1110 Introduction n Bilingual Education/ESL 3 BLED 2110 Bilingual Methods 3 Credits 16 Semester 4 Area IV: Social/Behavioral Sciences 3 LING 2110G Introduction to the Study of Language and Linguistics		,	
BLED 2110 Bilingual Methods 3 Credits 16 Semester 4 Area IV: Social/Behavioral Sciences 3 LING 2110G Introduction to the Study of Language and Linguistics		· · · · · · · · · · · · · · · · · · ·	
Credits 16 Semester 4 Area IV: Social/Behavioral Sciences 3 LING 2110G Introduction to the Study of Language and Linguistics			
Semester 4 Area IV: Social/Behavioral Sciences 3 LING 2110G Introduction to the Study of Language and Linguistics	BLED 2110	-	
LING 2110G Introduction to the Study of Language and Linguistics	Semester 4	Credits	16
Linguistics	Area IV: Social/Behavio	oral Sciences	3
5	LING 2110G		
	Area VI: Creative and F	-	3

	ARTH 1115G	Orientation in Art	
	MUSC 1110G	Music Appreciation: Jazz	
	MUSC 1130G	Music Appreciation: Western Music	
	THEA 1110G	Introduction to Theatre	
E	EDLT 2110	Integrating Technology with Teaching	3
Е	Elective from Teachi	ng Field	3
Elective from Teaching Field		3	
_		Credits	15
_		Total Credits	60

Education (Secondary Language Arts) - Associate Degree

Doña Ana Community College 2020-21 Catalog

(63-64 credits)

NOTE: All courses listed may be applied toward a degree at NMSU.

A grade of C- or better is required in <u>ENGL 1110G</u> Composition I and designated Mathematics courses, the Language Arts Teaching Field courses in footnote 3, and those designated in footnote 2.

Prefix	Title	Credits
General Education		
Area I: Communications		
English Composition - L		
ENGL 1110G	Composition I 1, 2, 3, *, **	4
English Composition - L	evel 2	
ENGL 2221G	Writing in the Humanities and Social Science	3
Oral Communication		
COMM 1115G	Introduction to Communication ^{2, 3}	3
or COMM 1130G	Public Speaking	
Area II: Mathematics		
Select one course from		3-4
MATH 1220G	College Algebra ^{1, 2, *, **}	
MATH 1250G	Trigonometry & Pre-Calculus ^{1, 2, **}	
Area III/IV: Laboratory Science and Social/Behavioral Sciences		
JOUR 105G	Media and Society ^{1, 2, 3}	
Select two different	Area III 'G' courses (8 credits)	
ASTR 1120G	The Planets ¹	
or ASTR 1115G	Introduction Astro (lec+lab)	
BIOL 1120G	Human Biology	
& BIOL 1120L	and Human Biology Laboratory ¹	
BIOL 2110G	Principles of Biology: Cellular and Molecular	
& BIOL 2110L	Biology	
	and Principles of Biology: Cellular and Molecular Biology Laboratory	
BIOL 2610G	Principles of Biology: Biodiversity, Ecology, and	
& BIOL 2610L	Evolution	
	and Principles of Biology: Biodiversity, Ecology, and Evolution Laboratory ¹	

CHEM 1120G	Introduction to Chemistry Lecture and Laboratory (non majors) 1	
CHEM 1215G	General Chemistry I Lecture and Laboratory for STEM Majors	
CHEM 1225G	General Chemistry II Lecture and Laboratory for STEM Majors	
GEOG 1110G	Physical Geography ¹	
GEOL 1110G	Physical Geology ¹	
Area V: Humanities		
HIST 1150G	Western Civilization I ¹	3
or HIST 1160G	Western Civilization II	
Area VI: Creative and F		
THEA 1110G	Introduction to Theatre ^{1, 2, 3}	3
General Education Ele	ctive	
Select one course fro		3
MATH 1130G	Survey of Mathematics 1, 2, **	
MATH 1430G	Applications of Calculus I 1, 2, **	
Core Requirements		
HIST 1110G	United States History I ¹	3
or HIST 1120G	United States History II	
MATH 1215	Intermediate Algebra ^{2, **}	3
Choose one from the	following:	3
ENGL 2610	American Literature I 2,3	
ENGL 2620	American Literature II ^{2, 3}	
ENGL 2630	British Literature I ^{2, 3}	
ENGL 2640	British Literature II ^{2, 3}	
Select one course fro the undergraduate ca	m the following (for more options see AREA IV in stalog):	3
ANTH 1137G	Human Ancestors ¹	
ANTH 1140G	Introduction to Cultural Anthropology ¹	
ANTH 1160G	World Archaeology ¹	
GEOG 1120G	World Regional Geography ¹	
GEOG 1130G	Human Geography ¹	
POLS 1110G	Introduction to Political Science 1	
POLS 1120G	American National Government ¹	
POLS 1130G	Issues in American Politics ¹	
POLS 2120G	International Relations ¹	
SOCI 1110G	Introduction to Sociology ¹	
SOCI 2310G	Contemporary Social Problems ¹	
Major Requirements		
Professional Requirem	nents (15 credits)	
CEPY 1120G	Human Growth and Behavior ^{1, 2}	3
EDUC 1185	Introduction to Secondary Education and Youth ^{2,*}	3
EDLT 2110	Integrating Technology with Teaching (This course counts as EDLT 368 at NMSU, Las Cruces) ^{2,*}	3
Electives, to bring the	e total credits to 60-61	9
Three Electives from	om Teaching Field (Language Arts)	
	- :	

- 1 Courses are part of The New Mexico General Education Requirements.
- This course must be completed with a grade of C- or better.
- These courses count toward the Language Arts Teaching Field.
- Courses with an (#) are pre/co-requisites for Teacher Education Program (TEP).

The best time to take the Praxis Core Academic Skills for Educators (Core) is shortly after you have completed your English and Math courses.

(63-64 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses, the courses in the Language Arts Teaching Field designated in footnote 3, and those designated in footnote 2 on the Requirements page.

Course	Title	Credits
Semester 1		
Area I: Communication	s - English Composition Level 1	4
ENGL 1110G	Composition I	
Area IV: Social/Behavio	oral Sciences	3
CEPY 1120G	Human Growth and Behavior	
Area V: Humanities		3
HIST 1150G or HIST 1160G	Western Civilization I or Western Civilization II	
Area VI: Creative and F	ine Arts	3
THEA 1110G	Introduction to Theatre	
MATH 1215	Intermediate Algebra	3
	Credits	16
Semester 2		
Area I: Communication	s - English Composition Level 2	3
ENGL 2221G	Writing in the Humanities and Social Science	
Area II: Mathematics		3-4
MATH 1220G or MATH 1250G	College Algebra or Trigonometry & Pre-Calculus	
Area III: Laboratory Sci 8 credits from different	ences - Choose one from the following (total of prefixes/areas):	4
ASTR 1115G	Introduction Astro (lec+lab)	
ASTR 1120G	The Planets	
BIOL 1120G	Human Biology	
& BIOL 1120L	and Human Biology Laboratory	
BIOL 2110G & BIOL 2110L	Principles of Biology: Cellular and Molecular Biology and Principles of Biology: Cellular and Molecular Biology Laboratory	
BIOL 2610G & BIOL 2610L	Principles of Biology: Biodiversity, Ecology, and Evolution and Principles of Biology: Biodiversity, Ecology, and Evolution Laboratory	
CHEM 1120G	Introduction to Chemistry Lecture and Laboratory (non majors)	
CHEM 1215G	General Chemistry I Lecture and Laboratory for STEM Majors	

CHEM 1225G	General Chemistry II Lecture and Laboratory for STEM Majors	
GEOG 1110G	Physical Geography	
GEOL 1110G	Physical Geology	
Area IV: Social/Behavi		3
JOUR 105G	Media and Society	
ENGL 2610	American Literature I	3
or ENGL 2620 or ENGL 2630	or American Literature II or British Literature I	
or ENGL 2640	or British Literature II	
01 21102 2010	Credits	16-17
Semester 3	oredits	1017
Area I: Communication	ns - Oral Communications	3
COMM 1115G or COMM 11300	Introduction to Communication G or Public Speaking	
Area III: Laboratory Sc 8 credits from differen	iences - Choose one from the following (total of t prefixes/areas):	4
ASTR 1115G	Introduction Astro (lec+lab)	
ASTR 1120G	The Planets	
BIOL 1120G	Human Biology	
& BIOL 1120L	and Human Biology Laboratory	
BIOL 2610G	Principles of Biology: Biodiversity, Ecology, and	
& BIOL 2610L	Evolution and Principles of Biology: Biodiversity, Ecology, and Evolution Laboratory	
BIOL 2110G	Principles of Biology: Cellular and Molecular	
& BIOL 2110L	Biology	
	and Principles of Biology: Cellular and Molecular Biology Laboratory	
CHEM 1120G	Introduction to Chemistry Lecture and Laboratory (non majors)	
CHEM 1215G	General Chemistry I Lecture and Laboratory for STEM Majors	
CHEM 1225G	General Chemistry II Lecture and Laboratory for STEM Majors	
GEOG 1110G	Physical Geography	
GEOL 1110G	Physical Geology	
General Education Ele	ctive - Area II: Mathematics	3
MATH 1130G	Survey of Mathematics	
or MATH 1430G	or Applications of Calculus I	
EDUC 1185	Introduction to Secondary Education and	3
	Youth	-
Elective from Teaching		3
	Credits	16
Semester 4		
	oral Sciences - Choose one from the following:	3
ANTH 1115G	Introduction to Anthropology	
ANTH 1137G	Human Ancestors	
ANTH 1140G	Introduction to Cultural Anthropology	
ANTH 1160G	World Archaeology	
GEOG 1120G	World Regional Geography	
GEOG 1130G	Human Geography	
POLS 1110G	Introduction to Political Science	
POLS 1120G	American National Government	
POLS 1130G	Issues in American Politics	
POLS 2120G	International Relations	
SOCI 1110G	Introduction to Sociology	
SOCI 2310G	Contemporary Social Problems	
Area V: Humanities		3
HIST 1110G	United States History I	

or HIST 1120	OG or United States History II	
EDLT 2110	Integrating Technology with Teaching	3
Elective from Teac	hing Field	3
Elective from Teac	hing Field	3
	Credits	15
	Total Credits	63-64

Education (Secondary Math) - Associate Degree

Doña Ana Community College 2020-21 Catalog

(61 credits)

NOTE: All courses listed may be applied toward a degree at NMSU.

A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses, along the Math Teaching Field courses designated in footnote 3, and the classes designated in footnote 2.

Prefix	Title	Credits
General Education		
Area I: Communications		
English Composition - L		
ENGL 1110G	Composition I 1, 2, *, **	4
English Composition - L	evel 2	
ENGL 2221G	Writing in the Humanities and Social Science ^{1,} 2,*,**	3
Oral Communication		
COMM 1115G	Introduction to Communication ¹	3
or COMM 1130G	Public Speaking	
Area II: Mathematics		
MATH 1220G	College Algebra ^{1, 2, *, **}	3
Area II/IV: Laboratory So	cience and Social/Behavioral Sciences	11
Select one from the	following:	
PHYS 1230G & PHYS 1230L	Algebra-Based Physics I and Algebra-Based Physics I Lab ^{1,2,3}	
PHYS 1310G & PHYS 1310L	Calculus -Based Physics I and Calculus -Based Physics I Lab ^{1, 2, 3}	
Select one from the		
PHYS 1240G & PHYS 1240L	Algebra-Based Physics II and Algebra-Based Physics II Lab ^{1, 2, 3}	
PHYS 1320G & PHYS 1320L	Calculus -Based Physics II and Calculus -Based Physics II Lab ^{1, 2, 3}	
Select one from the		
ECON 1110G	Survey of Economics ¹	
ECON 2110G	Macroeconomic Principles ¹	
ECON 2120G	Microeconomics Principles ¹	
Area V: Humanities		
HIST 1150G	Western Civilization I ¹	3
or HIST 1160G	Western Civilization II	
Area VI: Creative and Fin	ne Arts	

ARTH 11156 Orientation in Art 1 MUSC 1110G Music Appreciation: Jazz 1 MUSC 1130G Music Appreciation: Western Music 1 THEA 1110G Introduction to Theatre 1 General Education elective HIST 1110G United States History II Or HIST 1120G United States History II Core Requirements MATH 1215 Intermediate Algebra 2,** 3 MATH 1511G Calculus and Analytic Geometry I 1, 2, 3, *, ** 4 Select one course from the following: 3 ANTH 1115G Introduction to Anthropology 1 ANTH 1117G Human Ancestors 1 ANTH 1140G Introduction to Cultural Anthropology 1 ANTH 1160G World Archaeology 1 GEOG 1120G World Regional Geography 1 GEOG 1130G Human Geography 1 POLS 1120G American National Government 1 POLS 1110G Introduction to Political Science 1 SOCI 2110G Contemporary Social Problems 1 Major Requirements Professional Requirements (18 credits) CEPY 1120G Human Growth and Behavior 1, 2 SEDUC 1185 Introduction to Secondary Education and Youth 2, * EDUC 1185 Introduction to Secondary Education and Youth 2, * EDLT 2110 Integrating Technology with Teaching (This course will count as EDLT 368 at NMSU, Las Cruces) 2, * Electives, to bring the total credits to 61 Three Electives from Teaching Field (Math)	Total Credits		61
ARTH 1115G Orientation in Art 1 MUSC 1110G Music Appreciation: Jazz 1 MUSC 1130G Music Appreciation: Western Music 1 THEA 1110G Introduction to Theatre 1 General Education elective HIST 1110G United States History I 1 or HIST 1120G United States History II Core Requirements MATH 1215 Intermediate Algebra 2.*** MATH 1511G Calculus and Analytic Geometry I 1, 2, 3, *, *** 4 Select one course from the following: 3 ANTH 1115G Introduction to Anthropology 1 ANTH 1137G Human Ancestors 1 ANTH 1140G Introduction to Cultural Anthropology 1 ANTH 1160G World Archaeology 1 GEOG 1120G World Regional Geography 1 GEOG 1130G Human Geography 1 POLS 1120G American National Government 1 POLS 1110G Introduction to Political Science 1 SOCI 2310G Contemporary Social Problems 1 Major Requirements Professional Requirements (18 credits) CEPY 1120G Human Growth and Behavior 1, 2 SEDUC 1185 Introduction to Secondary Education and Youth 2,** EDLT 2110 Integrating Technology with Teaching (This course will count as EDLT 368 at NMSU, Las Cruces) 2,** Electives, to bring the total credits to 61		m Teaching Field (Math)	
ARTH 1115G Orientation in Art 1 MUSC 1110G Music Appreciation: Jazz 1 MUSC 1130G Music Appreciation: Western Music 1 THEA 1110G Introduction to Theatre 1 General Education elective HIST 1110G United States History I 1 or HIST 1120G United States History II Core Requirements MATH 1215 Intermediate Algebra 2, ** 3 MATH 1511G Calculus and Analytic Geometry I 1, 2, 3, *, ** 4 Select one course from the following: 3 ANTH 1115G Introduction to Anthropology 1 ANTH 1137G Human Ancestors 1 ANTH 1140G Introduction to Cultural Anthropology 1 ANTH 1160G World Archaeology 1 GEOG 1120G World Regional Geography 1 GEOG 1120G American National Government 1 POLS 1110G Introduction to Political Science 1 SOCI 1110G Introduction to Sociology 1 SOCI 2310G Contemporary Social Problems 1 Major Requirements Professional Requirements (18 credits) CEPY 1120G Human Growth and Behavior 1, 2 SDUC 1185 Introduction to Secondary Education and Youth 2, * EDUC 1185 Introduction to Secondary Education and Youth 2, * EDLT 2110 Integrating Technology with Teaching (This course will count as EDLT 368 at NMSU, Las Cruces) 2, *	, ,		9
ARTH 1115G Orientation in Art ¹ MUSC 1110G Music Appreciation: Jazz ¹ MUSC 1130G Music Appreciation: Western Music ¹ THEA 1110G Introduction to Theatre ¹ General Education elective HIST 1110G United States History I ¹ or HIST 1120G United States History II Core Requirements MATH 1215 Intermediate Algebra ^{2,**} MATH 1511G Calculus and Analytic Geometry I ^{1, 2, 3, *,***} 4 Select one course from the following: ANTH 1115G Introduction to Anthropology ¹ ANTH 1137G Human Ancestors ¹ ANTH 1140G Introduction to Cultural Anthropology ¹ ANTH 1160G World Archaeology ¹ GEOG 1120G World Regional Geography ¹ GEOG 1130G Human Geography ¹ POLS 1110G Introduction to Political Science ¹ SOCI 1110G Introduction to Sociology ¹ SOCI 2310G Contemporary Social Problems ¹ Major Requirements Professional Requirements (18 credits) CEPY 1120G Human Growth and Behavior ^{1, 2} EDUC 1185 Introduction to Secondary Education and		course will count as EDLT 368 at NMSU, Las Cruces) ^{2,*}	3
ARTH 1115G Orientation in Art 1 MUSC 1110G Music Appreciation: Jazz 1 MUSC 1130G Music Appreciation: Western Music 1 THEA 1110G Introduction to Theatre 1 General Education elective HIST 1110G United States History I 3 or HIST 1120G United States History II Core Requirements MATH 1215 Intermediate Algebra 2,** 3 MATH 1511G Calculus and Analytic Geometry I 1,2,3,*,*** 4 Select one course from the following: 3 ANTH 1115G Introduction to Anthropology 1 ANTH 1137G Human Ancestors 1 ANTH 1140G Introduction to Cultural Anthropology 1 ANTH 1160G World Archaeology 1 GEOG 1120G World Regional Geography 1 GEOG 1130G Human Geography 1 POLS 1120G American National Government 1 POLS 1110G Introduction to Political Science 1 SOCI 2310G Contemporary Social Problems 1 Major Requirements Professional Requirements (18 credits) CEPY 1120G Human Growth and Behavior 1,2 3	EDUC 1185		3
ARTH 1115G Orientation in Art 1 MUSC 1110G Music Appreciation: Jazz 1 MUSC 1130G Music Appreciation: Western Music 1 THEA 1110G Introduction to Theatre 1 General Education elective HIST 1110G United States History I 1 or HIST 1120G United States History II Core Requirements MATH 1215 Intermediate Algebra 2,*** MATH 1511G Calculus and Analytic Geometry I 1, 2, 3, *, *** Select one course from the following: 33 ANTH 1115G Introduction to Anthropology 1 ANTH 1137G Human Ancestors 1 ANTH 1140G Introduction to Cultural Anthropology 1 ANTH 1160G World Archaeology 1 GEOG 1120G World Regional Geography 1 GEOG 1130G Human Geography 1 POLS 1120G American National Government 1 POLS 1110G Introduction to Political Science 1 SOCI 1110G Introduction to Sociology 1 SOCI 2310G Contemporary Social Problems 1 Major Requirements Professional Requirements (18 credits)			3
ARTH 1115G Orientation in Art 1 MUSC 1110G Music Appreciation: Jazz 1 MUSC 1130G Music Appreciation: Western Music 1 THEA 1110G Introduction to Theatre 1 General Education elective HIST 1110G United States History I 1 3 or HIST 1120G United States History II Core Requirements MATH 1215 Intermediate Algebra 2,** 33 MATH 1511G Calculus and Analytic Geometry I 1,2,3,*,** 44 Select one course from the following: 33 ANTH 1115G Introduction to Anthropology 1 ANTH 1137G Human Ancestors 1 ANTH 1140G Introduction to Cultural Anthropology 1 ANTH 1160G World Archaeology 1 GEOG 1120G World Regional Geography 1 GEOG 1120G American National Government 1 POLS 1120G American National Government 1 POLS 1110G Introduction to Political Science 1 SOCI 1110G Introduction to Sociology 1 SOCI 2310G Contemporary Social Problems 1 Major Requirements	•	,	
ARTH 1115G Orientation in Art 1 MUSC 1110G Music Appreciation: Jazz 1 MUSC 1130G Music Appreciation: Western Music 1 THEA 1110G Introduction to Theatre 1 General Education elective HIST 1110G United States History I 1 or HIST 1120G United States History II Core Requirements MATH 1215 Intermediate Algebra 2.** 33 MATH 1511G Calculus and Analytic Geometry I 1, 2, 3, *, ** 44 Select one course from the following: 33 ANTH 1115G Introduction to Anthropology 1 ANTH 1137G Human Ancestors 1 ANTH 1140G Introduction to Cultural Anthropology 1 ANTH 1160G World Archaeology 1 GEOG 1120G World Regional Geography 1 GEOG 1130G Human Geography 1 POLS 1120G American National Government 1 POLS 1110G Introduction to Political Science 1 SOCI 1110G Introduction to Sociology 1 SOCI 2310G Contemporary Social Problems 1	• •		
ARTH 1115G Orientation in Art 1 MUSC 1110G Music Appreciation: Jazz 1 MUSC 1130G Music Appreciation: Western Music 1 THEA 1110G Introduction to Theatre 1 General Education elective HIST 1110G United States History I 1 or HIST 1120G United States History II Core Requirements MATH 1215 Intermediate Algebra 2,*** MATH 1511G Calculus and Analytic Geometry I 1, 2, 3, *, ** Select one course from the following: 3 ANTH 1115G Introduction to Anthropology 1 ANTH 1137G Human Ancestors 1 ANTH 1140G Introduction to Cultural Anthropology 1 ANTH 1160G World Archaeology 1 GEOG 1120G World Regional Geography 1 GEOG 1130G Human Geography 1 POLS 1120G American National Government 1 POLS 1110G Introduction to Political Science 1 SOCI 1110G Introduction to Sociology 1		Contemporary Social Problems ¹	
ARTH 1115G Orientation in Art 1 MUSC 1110G Music Appreciation: Jazz 1 MUSC 1130G Music Appreciation: Western Music 1 THEA 1110G Introduction to Theatre 1 General Education elective HIST 1110G United States History I 1 or HIST 1120G United States History II Core Requirements MATH 1215 Intermediate Algebra 2,*** 33 MATH 1511G Calculus and Analytic Geometry I 1, 2, 3, *, ** 4 Select one course from the following: 33 ANTH 1115G Introduction to Anthropology 1 ANTH 1137G Human Ancestors 1 ANTH 1140G Introduction to Cultural Anthropology 1 ANTH 1160G World Archaeology 1 GEOG 1120G World Regional Geography 1 GEOG 1130G Human Geography 1 POLS 1120G American National Government 1 POLS 1110G Introduction to Political Science 1		3,	
ARTH 1115G Orientation in Art 1 MUSC 1110G Music Appreciation: Jazz 1 MUSC 1130G Music Appreciation: Western Music 1 THEA 1110G Introduction to Theatre 1 General Education elective HIST 1110G United States History I 1 or HIST 1120G United States History II Core Requirements MATH 1215 Intermediate Algebra 2,** 3 MATH 1511G Calculus and Analytic Geometry I 1, 2, 3, *, ** 4 Select one course from the following: 3 ANTH 1115G Introduction to Anthropology 1 ANTH 1137G Human Ancestors 1 ANTH 1140G Introduction to Cultural Anthropology 1 ANTH 1160G World Archaeology 1 GEOG 1120G World Regional Geography 1 GEOG 1130G Human Geography 1 POLS 1120G American National Government 1	POLS 1110G	•	
ARTH 1115G Orientation in Art 1 MUSC 1110G Music Appreciation: Jazz 1 MUSC 1130G Music Appreciation: Western Music 1 THEA 1110G Introduction to Theatre 1 General Education elective HIST 1110G United States History I 1 or HIST 1120G United States History II Core Requirements MATH 1215 Intermediate Algebra 2.** 33 MATH 1511G Calculus and Analytic Geometry I 1, 2, 3, *, ** 44 Select one course from the following: 33 ANTH 1115G Introduction to Anthropology 1 ANTH 1137G Human Ancestors 1 ANTH 1140G Introduction to Cultural Anthropology 1 ANTH 1160G World Archaeology 1 GEOG 1120G World Regional Geography 1 GEOG 1130G Human Geography 1			
ARTH 1115G Orientation in Art 1 MUSC 1110G Music Appreciation: Jazz 1 MUSC 1130G Music Appreciation: Western Music 1 THEA 1110G Introduction to Theatre 1 General Education elective HIST 1110G United States History I 1 3 or HIST 1120G United States History II Core Requirements MATH 1215 Intermediate Algebra 2.** 33 MATH 1511G Calculus and Analytic Geometry I 1, 2, 3, *, ** 44 Select one course from the following: 33 ANTH 1115G Introduction to Anthropology 1 ANTH 1137G Human Ancestors 1 ANTH 1140G Introduction to Cultural Anthropology 1 ANTH 1160G World Archaeology 1 GEOG 1120G World Regional Geography 1	GEOG 1130G		
ARTH 1115G Orientation in Art 1 MUSC 1110G Music Appreciation: Jazz 1 MUSC 1130G Music Appreciation: Western Music 1 THEA 1110G Introduction to Theatre 1 General Education elective HIST 1110G United States History I 1 or HIST 1120G United States History II Core Requirements MATH 1215 Intermediate Algebra 2,** 3 MATH 1511G Calculus and Analytic Geometry I 1, 2, 3, *, ** 4 Select one course from the following: 3 ANTH 1115G Introduction to Anthropology 1 ANTH 1137G Human Ancestors 1 ANTH 1140G Introduction to Cultural Anthropology 1 ANTH 1140G World Archaeology 1	GEOG 1120G		
ARTH 1115G Orientation in Art 1 MUSC 1110G Music Appreciation: Jazz 1 MUSC 1130G Music Appreciation: Western Music 1 THEA 1110G Introduction to Theatre 1 General Education elective HIST 1110G United States History I 1 or HIST 1120G United States History II Core Requirements MATH 1215 Intermediate Algebra 2,*** MATH 1511G Calculus and Analytic Geometry I 1, 2, 3, *, ** 4 Select one course from the following: ANTH 1115G Introduction to Anthropology 1 ANTH 1137G Human Ancestors 1 ANTH 1140G Introduction to Cultural Anthropology 1	ANTH 1160G		
ARTH 1115G Orientation in Art 1 MUSC 1110G Music Appreciation: Jazz 1 MUSC 1130G Music Appreciation: Western Music 1 THEA 1110G Introduction to Theatre 1 General Education elective HIST 1110G United States History I 1 or HIST 1120G United States History II Core Requirements MATH 1215 Intermediate Algebra 2,** 3 MATH 1511G Calculus and Analytic Geometry I 1, 2, 3, *, ** 4 Select one course from the following: 3 ANTH 1115G Introduction to Anthropology 1 ANTH 1137G Human Ancestors 1	ANTH 1140G		
ARTH 1115G Orientation in Art 1 MUSC 1110G Music Appreciation: Jazz 1 MUSC 1130G Music Appreciation: Western Music 1 THEA 1110G Introduction to Theatre 1 General Education elective HIST 1110G United States History I 1 3 or HIST 1120G United States History II Core Requirements MATH 1215 Intermediate Algebra 2,** 3 MATH 1511G Calculus and Analytic Geometry I 1, 2, 3, *, ** 4 Select one course from the following: 3 ANTH 1115G Introduction to Anthropology 1	ANTH 1137G	1141141174110001010	
ARTH 1115G Orientation in Art 1 MUSC 1110G Music Appreciation: Jazz 1 MUSC 1130G Music Appreciation: Western Music 1 THEA 1110G Introduction to Theatre 1 General Education elective HIST 1110G United States History I 1 3 or HIST 1120G United States History II Core Requirements MATH 1215 Intermediate Algebra 2,*** 3 MATH 1511G Calculus and Analytic Geometry I 1, 2, 3, *, ** 4 Select one course from the following: 3	ANTH 1115G		
ARTH 1115G Orientation in Art 1 MUSC 1110G Music Appreciation: Jazz 1 MUSC 1130G Music Appreciation: Western Music 1 THEA 1110G Introduction to Theatre 1 General Education elective HIST 1110G United States History I 1 3 or HIST 1120G United States History II Core Requirements MATH 1215 Intermediate Algebra 2,** 3 MATH 1511G Calculus and Analytic Geometry I 1, 2, 3, *, ** 4	Select one course from		3
ARTH 1115G Orientation in Art 1 MUSC 1110G Music Appreciation: Jazz 1 MUSC 1130G Music Appreciation: Western Music 1 THEA 1110G Introduction to Theatre 1 General Education elective HIST 1110G United States History I 1 3 or HIST 1120G United States History II Core Requirements MATH 1215 Intermediate Algebra 2,*** 3			4
ARTH 1115G Orientation in Art 1 MUSC 1110G Music Appreciation: Jazz 1 MUSC 1130G Music Appreciation: Western Music 1 THEA 1110G Introduction to Theatre 1 General Education elective HIST 1110G United States History I 1 3 or HIST 1120G United States History II Core Requirements	MATH 1215		3
ARTH 1115G Orientation in Art 1 MUSC 1110G Music Appreciation: Jazz 1 MUSC 1130G Music Appreciation: Western Music 1 THEA 1110G Introduction to Theatre 1 General Education elective HIST 1110G United States History I 1 3 or HIST 1120G United States History II	Core Requirements	2 **	
ARTH 1115G Orientation in Art ¹ MUSC 1110G Music Appreciation: Jazz ¹ MUSC 1130G Music Appreciation: Western Music ¹ THEA 1110G Introduction to Theatre ¹ General Education elective	or HIST 1120G	United States History II	
ARTH 1115G Orientation in Art ¹ MUSC 1110G Music Appreciation: Jazz ¹ MUSC 1130G Music Appreciation: Western Music ¹ THEA 1110G Introduction to Theatre ¹ General Education elective	HIST 1110G	United States History I	3
ARTH 1115G Orientation in Art ¹ MUSC 1110G Music Appreciation: Jazz ¹ MUSC 1130G Music Appreciation: Western Music ¹	General Education elect		
ARTH 1115G Orientation in Art ¹ MUSC 1110G Music Appreciation: Jazz ¹ MUSC 1130G Music Appreciation: Western Music ¹	THEA 1110G	Introduction to Theatre ¹	
ARTH 1115G Orientation in Art ¹ MUSC 1110G Music Appreciation: Jazz ¹	MUSC 1130G		
ARTH 1115G Orientation in Art ¹	MUSC 1110G		
	ARTH 1115G		
Select one course from the following:	Select one course from	n the following:	3

- Courses are part of The New Mexico General Education Requirements.
- This course must be completed with a C- or better.
- These courses count toward the Math teaching field.
- Courses with an (#) are pre/co-requisites for Teacher Education Program (TEP).
- The best time to take the Praxis Core Academic Skills for Educators (Core) is shortly after you have completed your English and Math courses.

(61 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses, along the Math Teaching Field courses designated in footnote 3, and the classes designated in footnote 2 on the Required page.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 61 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course	Title	Credits	
Semester 1	English Commonition Loyal 1	4	
	ns - English Composition Level 1	4	
ENGL 1110G	Composition I	2	
Area V: Humanities	W 0::::: I	3	
HIST 1150G or HIST 1160G	Western Civilization I or Western Civilization II		
MATH 1215	Intermediate Algebra	3	
Area IV: Social/Behavio	oral Sciences	3	
ANTH 1115G	Introduction to Anthropology		
ANTH 1137G	Human Ancestors		
ANTH 1140G	Introduction to Cultural Anthropology		
ANTH 1160G	World Archaeology		
GEOG 1120G	World Regional Geography		
GEOG 1130G	Human Geography		
POLS 1110G	Introduction to Political Science		
POLS 1120G	American National Government		
SOCI 1110G	Introduction to Sociology		
SOCI 2310G	Contemporary Social Problems		
	Credits	13	
Semester 2	orcate	10	
	ns - English Composition Level 2	3	
ENGL 2221G	Writing in the Humanities and Social Science	3	
Area II: Mathematics	Witting in the Humanities and Social Science	3	
	Oallana Alaahaa	3	
MATH 1220G	College Algebra		
-	iences - Choose one from the following:	4	
PHYS 1230G & PHYS 1230L	Algebra-Based Physics I and Algebra-Based Physics I Lab		
PHYS 1310G & PHYS 1310L	Calculus -Based Physics I and Calculus -Based Physics I Lab		
Area IV: Social/Behavio	oral Sciences	3	
ECON 1110G or ECON 2110G or ECON 2120G	•		
Area VI: Creative and F	ine Arts - Choose one from the following:	3	
ARTH 1115G	Orientation in Art		
MUSC 1110G	Music Appreciation: Jazz		
MUSC 1130G	Music Appreciation: Western Music		
THEA 1110G	Introduction to Theatre		
	Credits	16	
Semester 3	orcate	10	
	ns - Oral Communications	3	
COMM 1115G	Introduction to Communication	3	
or COMM 11300			
Area II: Mathematics		4	
MATH 1511G	Calculus and Analytic Geometry I		
-	iences - Choose one from the following:	4	
PHYS 1240G & PHYS 1240L	Algebra-Based Physics II and Algebra-Based Physics II Lab		
PHYS 1320G & PHYS 1320L	Calculus -Based Physics II and Calculus -Based Physics II Lab		
Elective from Teaching	•	3	
-			

CEPY 1120G	Human Growth and Behavior	3
	Credits	17
Semester 4		
Area V: Humanities		3
HIST 1110G or HIST 1120G	United States History I or United States History II	
EDLT 2110	Integrating Technology with Teaching	3
Elective from Teaching	j Field	3
Elective from Teaching	g Field	3
EDUC 1185	Introduction to Secondary Education and Youth	3
	Credits	15
	Total Credits	61

Education (Secondary Science) - Associate Degree

Doña Ana Community College 2020-21 Catalog

(60-62 credits)

NOTE: All courses listed may be applied toward a degree at NMSU.

A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses, along with the Science Teaching Field courses designated in footnote 3, and the classes designated in footnote 2.

Prefix	Title	Credits
General Education		
Area I: Communications	3	
English Composition - L		
ENGL 1110G	Composition I 1, 2, *, **	4
English Composition - L		
ENGL 2221G	Writing in the Humanities and Social Science 1, 2, *, **	3
Oral Communication		
COMM 1115G	Introduction to Communication ¹	3
or COMM 1130G	Public Speaking	
Area II: Mathematics		
Choose one course fro	5	3-4
MATH 1220G	College Algebra ^{1, 2, *, **}	
MATH 1250G	Trigonometry & Pre-Calculus ^{1, 2, **}	
Area III/IV: Laboratory S	Sciences and Social/Behavioral Sciences	10
GEOG 1120G	World Regional Geography ¹	
or GEOG 1130G	Human Geography	
	from the following: (for more options see Area tions section of the catalog):	
ANTH 1137G	Human Ancestors	
ANTH 1140G	Introduction to Cultural Anthropology	
ANTH 1115G	Introduction to Anthropology	
SOCI 1110G	Introduction to Sociology	

SOCI 2310G	Contemporary Social Problems	
Select one Area III '	G' courses (4 credits)	
BIOL 2110G & BIOL 2110L	Principles of Biology: Cellular and Molecular Biology and Principles of Biology: Cellular and Molecular Biology Laboratory	
BIOL 2610G & BIOL 2610L	Principles of Biology: Biodiversity, Ecology, and Evolution and Principles of Biology: Biodiversity, Ecology, and Evolution Laboratory ^{1, 2,3}	
CHEM 1215G	General Chemistry I Lecture and Laboratory for STEM Majors ^{1,2,3}	
or CHEM 1225G	General Chemistry II Lecture and Laboratory for STEM Majors	
PHYS 1230G & PHYS 1230L	Algebra-Based Physics I and Algebra-Based Physics I Lab ^{1,2,3}	
PHYS 1240G & PHYS 1240L	Algebra-Based Physics II and Algebra-Based Physics II Lab ^{1, 2,3}	
PHYS 1310G & PHYS 1310L	Calculus -Based Physics I and Calculus -Based Physics I Lab ^{1, 2,3}	
PHYS 1320G & PHYS 1320L	Calculus -Based Physics II and Calculus -Based Physics II Lab ^{1, 2,3}	
PHYS 2230G & PHYS 2230L	General Physics for Life Science I and Laboratory to General Physics for Life Science I ^{1, 2,3}	
PHYS 2240G & PHYS 2240L	General Physics for Life Science II and Laboratory to General Physics for Life Science II ^{1, 2,3}	
Area V: Humanities		
Choose one from the fo		3
HIST 1120G	United States History II 1	
HIST 1110G	United States History I	
HIST 1130G	World History I	
HIST 1140G	World History II	
HIST 1150G	Western Civilization I	
HIST 1160G	Western Civilization II ¹	
Area VI: Creative and Fir		
Choose one course AR ARTH/DANC/MUSC/TH	EA VI in the undergraduate catalog. ARTS/ HEA ('G' courses)	3
General Education Elect		
Choose one course fro	•	3-4
MATH 1430G	Applications of Calculus I (1, 2, **)	
MATH 1511G	Calculus and Analytic Geometry I 1, 2, **	
	Area V/VI: Humanities or Creative & Fine Arts partments (ARTS/ARTH, DANC, ENGL, HIST,	6
MATH 1215	Intermediate Algebra ²	3
Major Requirements		
Professional Requireme	nts (18 credits)	
CEPY 1120G	Human Growth and Behavior ^{1, 2}	3
EDUC 1185	Introduction to Secondary Education and Youth 2,*	3
EDLT 2110	Integrating Technology with Teaching (This course counts as EDLT 368 at NMSU, Las Cruces) ^{2,*}	3
Electives, to bring the t	total credits to 60-62 n Teaching Field (Science)	10
Total Credits		60-62

- Courses are part of The New Mexico General Education Requirements.
- This course must be completed with a C- or better.
- This course counts toward the Science teaching field.
- * Courses with an (#) are pre/co-requisites for Teacher Education Program (TEP).
- ** The best time to take the Praxis Core Academic Skills for Educators (Core) is shortly after you have completed your English and Math courses.

(60-62 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses, along with the Science Teaching Field courses designated in footnote 3, and the classes designated in footnote 2.

Course	Title	Credits
Semester 1		
Area I: Communication	ns - English Composition Level 1	4
ENGL 1110G	Composition I	
Area V: Humanities - C	hoose one from the following:	3
HIST 1110G	United States History I	
HIST 1120G	United States History II	
HIST 1130G	World History I	
HIST 1140G	World History II	
HIST 1150G	Western Civilization I	
HIST 1160G	Western Civilization II	
MATH 1215	Intermediate Algebra	3
Area IV: social/Behavio	oral Sciences - Choose one from the following:	3
ANTH 1115G	Introduction to Anthropology	
ANTH 1137G	Human Ancestors	
ANTH 1140G	Introduction to Cultural Anthropology	
SOCI 1110G	Introduction to Sociology	
SOCI 2310G	Contemporary Social Problems	
	Credits	13
Semester 2		
Area I: Communication	ns - English Composition Level 2	3
ENGL 2221G	Writing in the Humanities and Social Science	
Area II: Mathematics		3-4
MATH 1220G	College Algebra	
or MATH 1250G	or Trigonometry & Pre-Calculus	
•	iences - Choose one from the following (total of	4
8 credits from differen	t prefixes/areas):	

BIOL 2610G & BIOL 2610L	Principles of Biology: Biodiversity, Ecology, and Evolution and Principles of Biology: Biodiversity, Ecology, and Evolution Laboratory	
BIOL 2110G & BIOL 2110L	Principles of Biology: Cellular and Molecular Biology and Principles of Biology: Cellular and Molecular Biology Laboratory	
CHEM 1215G	General Chemistry I Lecture and Laboratory for STEM Majors	
CHEM 1225G	General Chemistry II Lecture and Laboratory for STEM Majors	
PHYS 1230G & PHYS 1230L	Algebra-Based Physics I and Algebra-Based Physics I Lab	
PHYS 1240G & PHYS 1240L	Algebra-Based Physics II and Algebra-Based Physics II Lab	
PHYS 1310G & PHYS 1310L	Calculus -Based Physics I and Calculus -Based Physics I Lab	
PHYS 1320G & PHYS 1320L	Calculus -Based Physics II and Calculus -Based Physics II Lab	
PHYS 2230G & PHYS 2230L	General Physics for Life Science I and Laboratory to General Physics for Life Science I	
PHYS 2240G & PHYS 2240L	General Physics for Life Science II and Laboratory to General Physics for Life Science II	
Area IV: Social/Behav	vioral Sciences	3
GEOG 1120G or GEOG 11300	World Regional Geography G or Human Geography	
	Fine Arts - Choose one Area VI: Creative and Fine RTS, DANC, MUSC, THEA)	3
7 ii to oodi oo (7 ii t i i i j 7 i	itto, DANO, MOSO, TTILA)	
	Credits	16-17
Semester 3	Credits	
Semester 3 Area I: Communication	Credits ons - Oral Communications	16-17
Semester 3	Credits ons - Oral Communications Introduction to Communication	
Semester 3 Area I: Communication COMM 1115G or COMM 1130 Area V: Humanities Of Choose one additions	Credits ons - Oral Communications Introduction to Communication OG or Public Speaking OR Area VI: Creative and Fine Arts 'G' course - al Area V/VI: Humanities/Creative and Fine Arts departments for a total of 6 credits (ARTH, ARTS,	
Semester 3 Area I: Communication COMM 1115G or COMM 1130 Area V: Humanities Of Choose one additions courses in different of DANC, ENGL, HIST, M	Credits ons - Oral Communications Introduction to Communication OG or Public Speaking OR Area VI: Creative and Fine Arts 'G' course - al Area V/VI: Humanities/Creative and Fine Arts departments for a total of 6 credits (ARTH, ARTS,	3
Semester 3 Area I: Communication COMM 1115G or COMM 1130 Area V: Humanities Of Choose one additions courses in different of DANC, ENGL, HIST, M	Credits Ons - Oral Communications Introduction to Communication OG or Public Speaking OR Area VI: Creative and Fine Arts 'G' course - al Area V/VI: Humanities/Creative and Fine Arts departments for a total of 6 credits (ARTH, ARTS, IUSC, PHIL, THEA) ective - Area II: Mathematics Applications of Calculus I	3
Semester 3 Area I: Communication COMM 1115G or COMM 1130 Area V: Humanities Of Choose one additionation courses in different of DANC, ENGL, HIST, M. General Education El MATH 1430G	Credits Ons - Oral Communications Introduction to Communication OG or Public Speaking OR Area VI: Creative and Fine Arts 'G' course - al Area V/VI: Humanities/Creative and Fine Arts departments for a total of 6 credits (ARTH, ARTS, IUSC, PHIL, THEA) ective - Area II: Mathematics Applications of Calculus I G or Calculus and Analytic Geometry I	3
Semester 3 Area I: Communication COMM 1115G or COMM 1130 Area V: Humanities Of Choose one additions courses in different of DANC, ENGL, HIST, Michael General Education Elemant 1430G or MATH 1430G or MATH 1511	Credits Ons - Oral Communications Introduction to Communication OG or Public Speaking OR Area VI: Creative and Fine Arts 'G' course - al Area V/VI: Humanities/Creative and Fine Arts departments for a total of 6 credits (ARTH, ARTS, IUSC, PHIL, THEA) ective - Area II: Mathematics Applications of Calculus I G or Calculus and Analytic Geometry I ong Field	3 3-4
Semester 3 Area I: Communication COMM 1115G or COMM 1130 Area V: Humanities Of Choose one additions courses in different of DANC, ENGL, HIST, Michael General Education Elemant MATH 1430G or MATH 1511 Elective from Teachin	Credits Ons - Oral Communications Introduction to Communication OG or Public Speaking OR Area VI: Creative and Fine Arts 'G' course - al Area V/VI: Humanities/Creative and Fine Arts departments for a total of 6 credits (ARTH, ARTS, IUSC, PHIL, THEA) ective - Area II: Mathematics Applications of Calculus I G or Calculus and Analytic Geometry I org Field vioral Sciences Human Growth and Behavior	3-4
Semester 3 Area I: Communication COMM 1115G or COMM 1130 Area V: Humanities Of Choose one additionation courses in different of DANC, ENGL, HIST, Market General Education Elective from Teaching Area IV: Social/Behavio	Credits Ons - Oral Communications Introduction to Communication OG or Public Speaking OR Area VI: Creative and Fine Arts 'G' course - al Area V/VI: Humanities/Creative and Fine Arts departments for a total of 6 credits (ARTH, ARTS, IUSC, PHIL, THEA) ective - Area II: Mathematics Applications of Calculus I G or Calculus and Analytic Geometry I ong Field	3 3-4
Semester 3 Area I: Communication COMM 1115G or COMM 1115G Or COMM 1130 Area V: Humanities Of Choose one additions courses in different of DANC, ENGL, HIST, M General Education Elemant Elective from Teaching Area IV: Social/Behave CEPY 1120G Semester 4 Area V: Humanities Of	Credits Ons - Oral Communications Introduction to Communication OG or Public Speaking OR Area VI: Creative and Fine Arts 'G' course - al Area V/VI: Humanities/Creative and Fine Arts departments for a total of 6 credits (ARTH, ARTS, IUSC, PHIL, THEA) ective - Area II: Mathematics Applications of Calculus I G or Calculus and Analytic Geometry I org Field vioral Sciences Human Growth and Behavior	3-4
Semester 3 Area I: Communication COMM 1115G or COMM 1130 Area V: Humanities Of Choose one additionations ourses in different of DANC, ENGL, HIST, M. General Education Elemental Elective from Teaching Area IV: Social/Behave CEPY 1120G Semester 4 Area V: Humanities Of Choose one additionations	Credits Ons - Oral Communications Introduction to Communication OG or Public Speaking OR Area VI: Creative and Fine Arts 'G' course - all Area V/VI: Humanities/Creative and Fine Arts departments for a total of 6 credits (ARTH, ARTS, IUSC, PHIL, THEA) ective - Area II: Mathematics Applications of Calculus I G or Calculus and Analytic Geometry I org Field vioral Sciences Human Growth and Behavior Credits OR Area VI: Creative and Fine Arts 'G' course - all Area V/VI: Humanities/Creative and Fine Arts departments for a total of 6 credits (ARTH, ARTS,	3 3-4 3 3 15-16
Semester 3 Area I: Communication COMM 1115G or COMM 1115G Or COMM 1130 Area V: Humanities Of Choose one additions courses in different of DANC, ENGL, HIST, M General Education El MATH 1430G Or MATH 1511 Elective from Teachin Area IV: Social/Behave CEPY 1120G Semester 4 Area V: Humanities Of Choose one additions courses in different of DANC, ENGL, HIST, M EDLT 2110	Credits Ons - Oral Communications Introduction to Communication OG or Public Speaking OR Area VI: Creative and Fine Arts 'G' course - al Area V/VI: Humanities/Creative and Fine Arts departments for a total of 6 credits (ARTH, ARTS, IUSC, PHIL, THEA) ective - Area II: Mathematics Applications of Calculus I G or Calculus and Analytic Geometry I ng Field vioral Sciences Human Growth and Behavior Credits OR Area VI: Creative and Fine Arts 'G' course - al Area V/VI: Humanities/Creative and Fine Arts departments for a total of 6 credits (ARTH, ARTS, IUSC, PHIL, THEA) Integrating Technology with Teaching	3 3-4 3 3 15-16
Semester 3 Area I: Communication COMM 1115G or COMM 1115G Or COMM 1130 Area V: Humanities Of Choose one additionation courses in different of DANC, ENGL, HIST, Missing or MATH 1511 Elective from Teaching Area IV: Social/Behave CEPY 1120G Semester 4 Area V: Humanities Of Choose one additionation courses in different of DANC, ENGL, HIST, Missing EDLT 2110 Elective from Teaching Elective from Teaching Communication and Courses in different of DANC, ENGL, HIST, Missing EDLT 2110 Elective from Teaching Communication and Communication and Course in different of DANC, ENGL, HIST, Missing Education and Course in Co	Credits Ons - Oral Communications Introduction to Communication OG or Public Speaking OR Area VI: Creative and Fine Arts 'G' course - al Area V/VI: Humanities/Creative and Fine Arts Departments for a total of 6 credits (ARTH, ARTS, DUSC, PHIL, THEA) Dective - Area II: Mathematics Applications of Calculus I OF OF Calculus and Analytic Geometry I OF Field Devioral Sciences Human Growth and Behavior Credits OR Area VI: Creative and Fine Arts 'G' course - al Area V/VI: Humanities/Creative and Fine Arts Departments for a total of 6 credits (ARTH, ARTS, DUSC, PHIL, THEA) Integrating Technology with Teaching Technology with Teaching Technology with Teaching Technology Field	3 3 3 3 3 3 3 3
Semester 3 Area I: Communication COMM 1115G or COMM 1115G Or COMM 1130 Area V: Humanities Of Choose one additionation of Courses in different of DANC, ENGL, HIST, Marca IV: Social/Behavior (CEPY 1120G) Semester 4 Area V: Humanities Of Choose one additionation courses in different of DANC, ENGL, HIST, Marca IV: Social/Behavior (CEPY 1120G) Semester 4 Area V: Humanities Of Choose one additionation courses in different of DANC, ENGL, HIST, Marca IV: Elective from Teaching Elective from Teaching Elective from Teaching COMM 1115 COM	Credits Introduction to Communication OG or Public Speaking OR Area VI: Creative and Fine Arts 'G' course - al Area V/VI: Humanities/Creative and Fine Arts departments for a total of 6 credits (ARTH, ARTS, IUSC, PHIL, THEA) ective - Area II: Mathematics Applications of Calculus I G or Calculus and Analytic Geometry I org Field vioral Sciences Human Growth and Behavior Credits OR Area VI: Creative and Fine Arts 'G' course - al Area V/VI: Humanities/Creative and Fine Arts departments for a total of 6 credits (ARTH, ARTS, IUSC, PHIL, THEA) Integrating Technology with Teaching org Field org Field	3 3-4 3 3 15-16 3 3
Semester 3 Area I: Communication COMM 1115G or COMM 1130 Area V: Humanities Of Choose one additionations ourses in different of DANC, ENGL, HIST, Marca IV: Social/Behavior MATH 1511 Elective from Teaching Area IV: Social/Behavior MATH 1511 CEPY 1120G Semester 4 Area V: Humanities Of Choose one additionations ourses in different of DANC, ENGL, HIST, Marca IV: Elective from Teaching Elective from Teaching Elective from Teaching Additional electives in Additional electives in Elective from Teaching Additional electives in Elective from Te	Credits Introduction to Communication OG or Public Speaking OR Area VI: Creative and Fine Arts 'G' course - al Area V/VI: Humanities/Creative and Fine Arts departments for a total of 6 credits (ARTH, ARTS, IUSC, PHIL, THEA) ective - Area II: Mathematics Applications of Calculus I G or Calculus and Analytic Geometry I org Field vioral Sciences Human Growth and Behavior Credits OR Area VI: Creative and Fine Arts 'G' course - al Area V/VI: Humanities/Creative and Fine Arts departments for a total of 6 credits (ARTH, ARTS, IUSC, PHIL, THEA) Integrating Technology with Teaching org Field fine Field fi	3 3-4 3 3 3 3 3 3 1
Semester 3 Area I: Communication COMM 1115G or COMM 1115G Or COMM 1130 Area V: Humanities Of Choose one additionation of Courses in different of DANC, ENGL, HIST, Marca IV: Social/Behavior (CEPY 1120G) Semester 4 Area V: Humanities Of Choose one additionation courses in different of DANC, ENGL, HIST, Marca IV: Social/Behavior (CEPY 1120G) Semester 4 Area V: Humanities Of Choose one additionation courses in different of DANC, ENGL, HIST, Marca IV: Elective from Teaching Elective from Teaching Elective from Teaching COMM 1115 COM	Credits Introduction to Communication OG or Public Speaking OR Area VI: Creative and Fine Arts 'G' course - al Area V/VI: Humanities/Creative and Fine Arts departments for a total of 6 credits (ARTH, ARTS, IUSC, PHIL, THEA) ective - Area II: Mathematics Applications of Calculus I G or Calculus and Analytic Geometry I org Field vioral Sciences Human Growth and Behavior Credits OR Area VI: Creative and Fine Arts 'G' course - al Area V/VI: Humanities/Creative and Fine Arts departments for a total of 6 credits (ARTH, ARTS, IUSC, PHIL, THEA) Integrating Technology with Teaching org Field org Field	3 3-4 3 3 15-16 3 3
Semester 3 Area I: Communication COMM 1115G or COMM 1130 Area V: Humanities Of Choose one additionations ourses in different of DANC, ENGL, HIST, Marca IV: Social/Behavior MATH 1511 Elective from Teaching Area IV: Social/Behavior MATH 1511 CEPY 1120G Semester 4 Area V: Humanities Of Choose one additionations ourses in different of DANC, ENGL, HIST, Marca IV: Elective from Teaching Elective from Teaching Elective from Teaching Additional electives in Additional electives in Elective from Teaching Additional electives in Elective from Te	Credits Introduction to Communication OG or Public Speaking OR Area VI: Creative and Fine Arts 'G' course - al Area V/VI: Humanities/Creative and Fine Arts departments for a total of 6 credits (ARTH, ARTS, IUSC, PHIL, THEA) ective - Area II: Mathematics Applications of Calculus I G or Calculus and Analytic Geometry I org Field vioral Sciences Human Growth and Behavior Credits OR Area VI: Creative and Fine Arts 'G' course - al Area V/VI: Humanities/Creative and Fine Arts departments for a total of 6 credits (ARTH, ARTS, IUSC, PHIL, THEA) Integrating Technology with Teaching org Field fine Field fi	3 3-4 3 3 3 3 3 3 1

Education (Secondary Social Studies) - **Associate Degree**

Doña Ana Community College 2020-21 Catalog

Title

(60-61 credits)

Prefix

NOTE: All courses listed may be applied toward a degree at NMSU.

A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses, along with the Social Studies Teaching Field courses designated in footnote 3, and the classes designated in footnote 2.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 60-61 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	TITLE	Credits
General Education		
Area I: Communications	3	
English Composition - L		
ENGL 1110G	Composition I 1, 2, *, **	4
English Composition - L	evel 2	
ENGL 2221G	Writing in the Humanities and Social Science 1, 2, *, **	3
Oral Communication		
COMM 1115G	Introduction to Communication ¹	3
or COMM 1130G	Public Speaking	
Area II: Mathematics		
Choose one course fro		3-4
MATH 1220G	College Algebra ^{1, 2, *, **}	
MATH 1250G	Trigonometry & Pre-Calculus ^{1, 2, **}	
Area III/IV: Laboratory S	Science and Social/Behavioral Sciences	11
GEOG 1130G	Human Geography ^{1, 2, 3}	
Select two different	t Area III 'G' courses (8 credits)	
ASTR 1120G	The Planets ¹	
or ASTR 1115G	Introduction Astro (lec+lab)	
BIOL 1120G & BIOL 1120L	Human Biology and Human Biology Laboratory ¹	
BIOL 1190G	Contemporary Problems in Biology ¹	
BIOL 2110G & BIOL 2110L	Principles of Biology: Cellular and Molecular Biology and Principles of Biology: Cellular and Molecular Biology Laboratory	
BIOL 2610G & BIOL 2610L	Principles of Biology: Biodiversity, Ecology, and Evolution and Principles of Biology: Biodiversity, Ecology, and Evolution Laboratory ¹	
CHEM 1120G	Introduction to Chemistry Lecture and Laboratory (non majors) ¹	
CHEM 1215G	General Chemistry I Lecture and Laboratory for STEM Majors ¹	
CHEM 1225G	General Chemistry II Lecture and Laboratory for STEM Majors ¹	
GEOG 1110G	Physical Geography ¹	
GEOL 1110G	Physical Geology ¹	

Area V: Humanities		
HIST 1150G	Western Civilization I 1,2,3	3
or HIST 1160G	Western Civilization II	
Area VI: Creative and F	ine Arts ⁴	3
General Education Elec		
HIST 1110G	United States History I 1,2,3	3
or HIST 1120G	United States History II	
Core Requirements	,	
MATH 1215	Intermediate Algebra ^{2,**}	3
POLS 1110G	Introduction to Political Science 1, 2, 3	3
or POLS 1120G	American National Government	
HIST 1130G	World History I ^{1,2,3}	3
or HIST 1140G	World History II	
Choose one course fr	om the following:	3
MATH 1130G	Survey of Mathematics 1, 2	
MATH 1430G	Applications of Calculus I 1, 2, **	
Major Requirements		
Professional Requirem	ents (18 credits)	
CEPY 1120G	Human Growth and Behavior ^{1, 2}	3
EDUC 1185	Introduction to Secondary Education and Youth ^{2,*}	3
EDLT 2110	Integrating Technology with Teaching (This course counts as EDLT 368 at NMSU, Las Cruces) ^{2,*}	3
Electives, to bring the	total credits to 60-61	6
Two Electives fron	n Teaching Field (Social Studies)	
Total Credits		60-61

- Courses are part of The New Mexico General Education Requirements.
- This course must be completed with a C- or better.
- This course counts toward the Social Studies teaching field.
- See the <u>General Education</u> (p. 52) section of the catalog for a full list of courses.
- * Courses with an (#) are pre/co-requisites for Teacher Education Program (TEP).
- ** The best time to take the Praxis Core Academic Skills for Educators (Core) is shortly after you have completed your English and Math courses.

(60-61 credits)

Credits

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses, along with the Social Studies Teaching Field courses designated in footnote 3, and the classes designated in footnote 2.

Course	Title	Credits
Semester 1		
Area I: Communication	s - English Composition Level 1	4
ENGL 1110G	Composition I	
Area V: Humanities		3
HIST 1150G or HIST 1160G	Western Civilization I or Western Civilization II	
Area VI: Creative and F NM General Education	ine Arts - Select one course from Area VI of the requirements.	3
MATH 1215	Intermediate Algebra	3
Area IV: Social/Behavio	oral Sciences	3
POLS 1110G	Introduction to Political Science	
	Credits	16
Semester 2		
Area I: Communication	s - English Composition Level 2	3
ENGL 2210G	Professional & Technical Communication	
Area II: Mathematics		3-4
MATH 1220G	College Algebra	
or MATH 1250G	or Trigonometry & Pre-Calculus	
Area III: Laboratory Sci 8 credits from different	ences - Choose one from the following (total of prefixes/areas):	4
ASTR 1115G	Introduction Astro (lec+lab)	
ASTR 1120G	The Planets	
BIOL 1120G	Human Biology	
& BIOL 1120L	and Human Biology Laboratory	
BIOL 1190G	Contemporary Problems in Biology	
BIOL 2110G & BIOL 2110L	Principles of Biology: Cellular and Molecular Biology and Principles of Biology: Cellular and Molecular Biology Laboratory	
BIOL 2610G & BIOL 2610L	Principles of Biology: Biodiversity, Ecology, and Evolution and Principles of Biology: Biodiversity, Ecology, and Evolution Laboratory	
CHEM 1120G	Introduction to Chemistry Lecture and	
CHEM 1215G	Laboratory (non majors) General Chemistry I Lecture and Laboratory for	
CHEM 1225G	STEM Majors General Chemistry II Lecture and Laboratory	
GEOG 1110G	for STEM Majors Physical Geography	
GEOL 1110G	Physical Geology	
Area IV: Social/Behavio	, ,,	3
GEOG 1130G	Human Geography	
General Education Elec	ctive - Area V: Humanities	3
HIST 1110G	United States History I	
or HIST 1120G	or United States History II	
	Credits	16-17
Semester 3		
Area I: Communication	s - Oral Communications	3
COMM 1115G or COMM 1130G	Introduction to Communication or Public Speaking	
Area II: Mathematics		3
MATH 1130G or MATH 1430G	Survey of Mathematics or Applications of Calculus I	
	ences - Choose one from the following (total of	4
8 credits from different	5 ,	
ASTR 1115G	Introduction Astro (lec+lab)	
ASTR 1120G	The Planets	
BIOL 1120G	Human Biology	

	& BIOL 1120L	and Human Biology Laboratory	
	BIOL 1190G	Contemporary Problems in Biology	
	BIOL 2110G & BIOL 2110L	Principles of Biology: Cellular and Molecular Biology and Principles of Biology: Cellular and Molecular Biology Laboratory	
	BIOL 2610G & BIOL 2610L	Principles of Biology: Biodiversity, Ecology, and Evolution and Principles of Biology: Biodiversity, Ecology, and Evolution Laboratory	
	CHEM 1120G	Introduction to Chemistry Lecture and Laboratory (non majors)	
	CHEM 1215G	General Chemistry I Lecture and Laboratory for STEM Majors	
	CHEM 1225G	General Chemistry II Lecture and Laboratory for STEM Majors	
	GEOG 1110G	Physical Geography	
	GEOL 1110G	Physical Geology	
Aı	rea IV: Social/Behavi	oral Sciences	3
	CEPY 1120G	Human Growth and Behavior	
		Credits	13
S	emester 4		
EI	DUC 1185	Introduction to Secondary Education and Youth	3
Aı	rea V: Humanities		3
	HIST 1130G or HIST 1140G	World History I or World History II	
E	DLT 2110	Integrating Technology with Teaching	3
El	ective from Teaching	; Field	3
El	ective from Teaching	g Field	3
		Credits	15
		Total Credits	60-61

Electrical Programs

Certificates of Completion

· Electrical Lineworker Certificate

Electrical Lineworker Certificate Program

New Mexico electric cooperatives and private firms that perform electrical line work often find it difficult to fill vacancies. DACC's Electrical Lineworker Program is a one-year pre-apprenticeship certificate program designed to provide students with the technical background and the manual skills necessary for careers in the installation and maintenance of electrical power cables. This training will apply to other industries such as cable television companies, telephone companies and line construction contractors. Opportunities for advancement into supervisory and management positions within these companies is a possibility, but will require a consistently high job performance along with solid leadership skills by individuals.

Students will be exposed to such curriculum topics as AC/DC electrical theory, field training, occupational safety, line construction theory, rigging, and transformers. Campus instruction facilities include a large outdoor training field for pole climbing, line construction, bucket-truck operation and erecting power lines using power-line construction trucks with safety, pole climbing and teamwork highly emphasized. Along with extensive hands-on experience building power lines, students also practice both overhead and underground techniques. As part of the required curriculum, students will be required to work as a cooperative education student

with a New Mexico electric cooperative or a private firm that performs electrical line work.

Upon successful completion of the Electrical Lineworker program, the graduate is expected to:

- Practice the electrical skills of the profession in a conscientious, responsible, and accountable manner while recognizing the need to continue to expand their technical knowledge and skills.
- Safely climb poles and operate line bucket trucks and pole setting equipment when performing overhead line construction.
- Safety, teamwork and critical thinking use the acquired analytical skills to solve problems encountered in a field situation.

Graduates are prepared to join the electrical power industry workforce as safe and knowledgeable apprentices.

Additional Graduation Requirements

To receive either an associate degree or a certificate of completion, students are required to obtain a Career Readiness Certificate in the areas of Applied Math, Workplace Documents, and Graphic Literacy at the appropriate level for their respective degree option. OETS 102, Career Readiness Certification Preparation, is a course offered to assist the student in their preparation to attain the required Career Readiness Certificates.A program advisor can provide additional information.

Program Admissions Criteria

The following items are required for successful admission into the Electrical Lineworker program:

- · Admission to DACC
- Background check through the designated affiliate (adverse findings may disqualify a student from acceptance into the program)
- · Drug screening
- · Human Performance Evaluation; Very Heavy Test

Electrical Lineworker - Certificate (p. 237)

ELWK - Electrical Lineworker

ELWK 130. Introduction to Electrical Power Systems 2 Credits (2)

An overview of electrical power systems, equipment, safety practices, first aid and CPR. May be repeated up to 2 credits. Students must be accepted into the electrical lineworker program before enrolling in this course. Restricted to: OEET majors. Restricted to Community Colleges campuses only.

Corequisite(s): OEET 110,0EET 131.

ELWK 131. Electrical Lineworker Lab I 6 Credits (12P)

Climbing and work on utility poles using ropes and rigging, pole setting and an introduction to transmission and distribution line construction. Maintenance and troubleshooting to include the use of hot sticks. May be repeated up to 6 credits. Students must be accepted into the electrical lineworker program before enrolling in this course. Restricted to: OEET majors. Restricted to Community Colleges campuses only.

Corequisite(s): OEET 110, OEET 130.

ELWK 140. Electrical Power Systems II

3 Credits (2+2P)

Theory of power generation and distribution with emphasis on three phase systems to include transformers, voltage regulators, surge arrestors. Includes troubleshooting. May be repeated up to 3 credits. Students must be accepted into the electrical lineworker program before enrolling in this course. Restricted to: OEET majors. Restricted to Community Colleges campuses only.

Corequisite(s): OEET 141.

ELWK 141. Electrical Lineworker II

6 Credits (12P)

Practice in the installation of electrical power lines including transformers, voltage regulators, and surge arrestors. Also advanced hot sticking procedures, troubleshooting, underground systems procedures, and pole-top rescue. May be repeated up to 6 credits. Students must be accepted into the electrical lineworker program before enrolling in this course. Restricted to: OEET majors. Restricted to Community Colleges campuses only.

Corequisite(s): OEET 140.

ELWK 221. Cooperative Experience I

1-4 Credits (1-4)

Supervised cooperative work program. Student is employed in an approved occupation and is supervised and rated by the employer and instructor. Student will meet in a weekly class. May be repeated up to 4 credits. Consent of Instructor required. Graded: S/U Grading (S/U, Audit). Restricted to Community Colleges campuses only.

Prerequisite(s): Consent of instructor.

OEET - Electrical Trades

OEET 110. Basic Electricity and Electronics 4 Credits (3+3P)

An introduction to electricity theory and practice, including electron theory, Ohm s law, construction of electrical circuits, direct and alternating currents, magnetism, transformers, and practical applications. Same as HVAC 102, ELT 105, OEPB 102.

OEET 120. Basic Motor Controls

5 Credits (2+6P)

Developing schematics and wiring simple manual and electromechanical control devices.

Prerequisite: OEET 110 or consent of instructor.

OEET 151. Electrical Apprenticeship I

6 Credits (6)

Apprenticeship responsibilities and benefits as well as first aid and CPR will be covered. Hand tools, electrical theory, and the regulations imposed by national codes and OSHA. Students will apply theory taught in their jobs.

Prerequisite: consent of instructor.

OEET 152. Electrical Apprenticeship II

6 Credits (6)

OHM s law circuit sizing and service panel sizing will be covered in detail. Other topics include low voltage systems, heating and air conditioning circuits, alarm systems and smoke detectors.

Prerequisites: OEET 151 and consent of instructor.

OEET 153. Electrical Apprenticeship III

6 Credits (6)

Various electrical measuring devices will be covered in detail. Inductance, transformers, capacitance, and simple motors will be studied.

Prerequisites: OEET 152 and consent of instructor.

OEET 154. Electrical Apprenticeship IV

6 Credits (6)

Theory and application of three-phase transformers and autotransformers. Electrical distribution using switchboards, panelboards, and circuit breakers.

Prerequisites: OEET 153 and consent of instructor.

OEET 205. National Electric Code

3 Credits (3)

Interpretation and application of the National Electric Code.

Prerequisite: OEET 110.

OEET 210. Intermediate Electricity

5 Credits (3+4P)

Introduction to inductance, capacitance, reactances, and power factor

correction.

Prerequisite: OEET 110.

OEET 251. Electrical Apprenticeship V

6 Credits (6)

Commercial/industrial applications for electricians. Blueprint interpretation, commercial construction types and processes, wiring methods, wiring materials, and motor controls.

Prerequisites: OEET 154 and consent of instructor.

OEET 252. Electrical Apprenticeship VI

6 Credits (6)

In-depth commercial applications to include commercial/industrial service calculations, mobile home parks, multi-family dwellings, and commercial fire/security systems.

Prerequisites: OEET 251 and consent of instructor.

OEET 253. Electrical Apprenticeship VII

6 Credits (6)

Control devices in commercial/industrial applications; emphasis on logic in-line diagrams, time delay starters, reversing starters, and manual/magnetic solenoids.

Prerequisites: OEET 252 and consent of instructor.

OEET 254. Electrical Apprenticeship VIII

6 Credits (6)

Miscellaneous topics for the journeyperson electrician to include power distribution/transmission, solid state controls and relays, photoelectric and proximity controls and programmable controllers.

Prerequisites: OEET 253 and consent of instructor.

OEET 295. Special Topics

1-6 Credits

Topics to be announced in the Schedule of Classes.

Name: Terry Mount, Department Chair

Office Location: DATS 155A Phone: (575) 527-7590

Website: https://dacc.nmsu.edu/elp/

Electrical Lineworker - Certificate Doña Ana Community College 2020-21 Catalog

(31 credits)

The Electrical Lineworker Certificate option has its own separate requirements that are listed here.

NOTE: Students not possessing a commercial drivers license (CDL) will be required to take AUTO 130 Introduction to Transportation Industry and AUTO 131 Class A CDL, during the fall and spring semesters, respectively. Students must receive a final grade of C- or better in all required ELWK courses/Technical Requirements and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University certificate requirements to total at least 31 credits (31 of credits listed for degree). Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
Related Requirements	•	
Select one from the fo	llowing:	3
BCIS 1110	Introduction to Information Systems ¹	
OECS 105	Introduction to Information Technology	
OECS 227	Computer Applications for Technicians	
OETS 118	Mathematics for Technicians	3
Technical Requirement	ts	
OEET 110	Basic Electricity and Electronics	4
ELWK 130	Introduction to Electrical Power Systems	2
ELWK 131	Electrical Lineworker Lab I	6
ELWK 140	Electrical Power Systems II	3
ELWK 141	Electrical Lineworker II	6
ELWK 221	Cooperative Experience I	4
Total Credits		31

Course is identical to those offered at New Mexico State University Las Cruces (main) Campus.

(31 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students not possessing a commercial drivers license (CDL) will be required to take AUTO 130 Introduction to Transportation Industry and AUTO 131 Class A CDL, during the fall and spring semesters, respectively.

Students must receive a final grade of C- or better in all required ELWK courses/Technical Requirements and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University certificate requirements to total at least 31 credits (31 of credits listed for degree). Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course	Title	Credits
Semester 1		
BCIS 1110 or OECS 105 or OECS 227	Introduction to Information Systems or Introduction to Information Technology or Computer Applications for Technicians	3
ELWK 130	Introduction to Electrical Power Systems	2
ELWK 131	Electrical Lineworker Lab I	6
OEET 110	Basic Electricity and Electronics	4
AUTO 130 (3 credits) commercial driver's li	required for students who do not possess a cense (CDL).	
	Credits	15
Semester 2		
ELWK 140	Electrical Power Systems II	3
ELWK 141	Electrical Lineworker II	6
OETS 118	Mathematics for Technicians	3
AUTO 131 (3 credits) commercial driver's li	required for students who do not possess a cense (CDL).	
	Credits	12
Semester 3		
ELWK 221	Cooperative Experience I	4
	Credits	4
	Total Credits	31

Electronics Technology

Associate of Applied Science Degree

- · General Electronics Technology Concentration
- · Biomedical Electronics Concentration

Certificates of Completion

- · Electronics Technology
- Biomedical Electronics

The explosion in the number and diversity of electronic devices used in home and industry settings has greatly intensified the demand for qualified technicians. As orders for high-tech communications equipment and electronic products continue to rise, job opportunities for electronics technicians will expand even more. Salaries in the various branches of electronics are among the highest for all technology areas.

Students in the Electronics Technology program learn using state-of-the-art equipment and instrumentation. They work and train in spacious, modern laboratories similar to those used in industry. Students have the opportunity to analyze and troubleshoot actual problems while learning from knowledgeable and experienced instructors.

The Electronics Technology program may be completed on a part-time basis by taking classes during the evening or during the day. Those who wish to pursue a bachelor of science degree in Engineering Technology at New Mexico State University may apply up to 36 credit hours from the Electronics Technology program toward the four-year degree.

While pursuing this program, whether they are taking classes or working as apprentices, students will be required to perform the same job duties and be able to meet the same physical requirements that they will as a graduate in the field. Depending where they find employment, graduates may be required to lift up to 50 pounds from the ground, work safely around electrical equipment using the appropriate safety equipment,

work safely using hand and power tools, ascend and descend stairs and ladders, and stand, squat, stoop or kneel for long periods of time.

Two program options are available:

General Electronics Concentration

The General Electronics Concentration prepares graduates for entry-level employment as technical assistants and technicians in the fabrication, testing, maintenance, and repair of electrical and electronic equipment. Job opportunities exist in the areas of manufacturing and repair of electronic instruments, audio and video electronics, computers, medical equipment, and industrial and consumer electronic equipment. While positions for electronics technicians are found in all sectors of the economy, many of the jobs in southern New Mexico are in government and defense-related industries. Opportunities for advancement in the electronics field are above average.

Biomedical Electronics Concentration

The Biomedical Electronics Concentration is a specialized program focusing on medical equipment. Career opportunities exist in hospital and clinical settings, engineering departments, and medical equipment manufacturing companies, as well as other organizations serving the rapidly expanding medical equipment service market. This course of study will also help prepare the electronics student for the Biomedical Equipment Technician Certification Exam of the International Certification Commission for Clinical Engineering and Biomedical Technology.

Additional Graduation Requirements

To receive either an associate degree or a certificate of completion, students are required to obtain a Career Readiness Certificate in the areas of Applied Math, Reading for Information, and Locating Information at the appropriate level for their respective degree option. To facilitate success in obtaining their Career Readiness Certificate, students will be required to take 1 credit of OETS 102 Career Readiness Certification Preparation. A program advisor can provide additional information.

<u>Electronics Technology (Biomedical Electronics) - Associate of Applied Science</u> (p. 240)

<u>Electronics Technology (General Electronics) - Associate of Applied Science</u> (p. 242)

Electronics Technology - Certificate of Completion (p. 244)

Biomedical Electronics - Certificate of Completion (p. 243)

ELT 103. Math Study Skills for Electronics 1 Credit (1)

Covers specific math study skills and critical thinking processes to reinforce practical applications of math and its use with electronics. The student will be introduced to electronic mathematical formulas during the problem-solving steps required for circuit analysis. May be repeated up to 4 credits.

Prerequisite(s)/Corequisite(s): ET 183 OR ET 184. Restricted to Community Colleges only.

ELT 105. Basic Electricity and Electronics 3 Credits (2+2P)

Fundamentals of electricity and electronics, basic circuit devices, meters, transistors, integrated circuits and other solid state devices, computers, fiber optics, and industrial application topics. Minimum math proficiency of CCDM 103 or CCDM 104 required or math placement into CCDM 114 or higher. Restricted to: Community Colleges only. Crosslisted with: AERT 111

ELT 110. Electronics I

4 Credits (3+3P)

Fundamentals of electronics including: components, schematics, Ohm's law, Thevenin's and Norton's theorems, and series/parallel circuits incorporating passive, active and magnetic elements. Introduction to AC circuits. Crosslisted with: AERT123. Restricted to: Community Colleges only.

ELT 120. Mathematics for Electronics

4 Credits (4)

Includes fundamental mathematics, algebra, sine, cosine, and other elementary functions as they specifically apply to the operation, manipulation, and evaluation of direct current (DC) and alternating current (AC) circuits. Minimum math proficiency of CCDM 114 required or math placement into MATH 1215 or higher. Restricted to: Community Colleges only. Crosslisted with: AERT 124

ELT 135. Electronics II

4 Credits (3+3P)

Analysis of AC circuits, filters, and resonance. Introduction to solid state fundamentals including diodes and rectifier circuits, voltage regulators, various transistors and transistor characteristics, amplification and amplifiers, photoelectric effects, gates and timing circuits. Restricted to Community Colleges campuses only.

Prerequisite(s): ELT 110 and ELT 120.

ELT 155. Electronics CAD and PCB Design

3 Credits (2+2P)

Introduction to and the use of commercially available CAD software covering schematic representation of electronic components and circuits. Printed circuit board layout techniques including proper schematic capture, netlist generation, design rule checking and manual routing covered.

ELT 160. Digital Electronics I

4 Credits (3+3P)

Number systems, codes, Boolean algebra, logic gates, Karnaugh maps, combination circuits, flip-flops, and digital troubleshooting techniques. Restricted to: Community Colleges only.

Prerequisite(s): ELT 110 and (ELT 120 or MATH 1215).

ELT 175. Soldering Practices

3 Credits (2+2P)

Methods and techniques of hand soldering in the production of high quality and reliable soldering connections. Restricted to: Community Colleges only.

ELT 205. Semiconductor Devices

4 Credits (3+3P)

Analysis and trouble shooting of linear electronic circuits including amplifiers, op-amps, power supplies, and oscillators. Restricted to: Community Colleges only.

Prerequisite(s): ELT 110 and ELT 135.

ELT 215. Microprocessor Applications I

4 Credits (3+2P)

Fundamentals of microprocessor architecture and assembly language with an emphasis on hardware interfacing applications.

Prerequisite(s)/Corequisite(s): ELT 235. Prerequisite(s): ELT 160.

Restricted to: Community Colleges only.

ELT 220. Electronic Communication Systems

4 Credits (3+2P)Principles and applications of circuits and devices used in the

transmission, reception, and processing of RF, microwave, digital and telecommunications systems.

Prerequisite(s)/Corequisite(s): ELT 205. Prerequisite(s): ELT 135.

Restricted to: Community Colleges only.

ELT 221. Cooperative Experience I

1-6 Credits

Supervised cooperative work program. Student is employed in an approved occupation and supervised and rated by the employer and instructor. Student will meet in a weekly class. Graded S/U.

Prerequisite: consent of instructor.

ELT 222. Cooperative Experience II

1-6 Credits

Continuation of ELT 221. Maximum of 6 credits. Graded S/U.

Prerequisite: consent of instructor.

ELT 225. Computer Applications for Technicians

3 Credits (2+2P)

An overview of computer hardware, software applications, operating systems, high level programming languages and networking systems.

ELT 230. Microprocessor Applications II

4 Credits (3+2P)

Advanced microprocessor interfacing techniques. Topics in A/D and D/A conversion, I/O port address decoding, direct memory accessing, and peripheral device interfacing applications.

Prerequisite: ELT 215.

ELT 235. Digital Electronics II

3 Credits (2+2P)

Sequential logic circuits, latches, counters, shift-registers, fault analysis and troubleshooting of digital IC s, multiplexers, timers, encoders/decoders, arithmetic circuits, pulse shaping, and memory devices.

Restricted to: Community Colleges only.

Prerequisite(s): ELT 160.

ELT 240. Introduction to Photonics

4 Credits (3+2P)

Nature of light, light emitters, lasers, detectors, fiber optics communications systems, and other applications of light to electronics.

Prerequisite: ELT 135 or consent of instructor.

ELT 250. Electronics Systems Analysis

2 Credits (1+3P)

Capstone course emphasizing a systems approach to troubleshooting and maintaining complex electronics systems. Includes program review in preparation for technician certification.

Prerequisite: consent of instructor.

ELT 260. Instrumentation Control and Signal Conditioning 4 Credits (3+2P)

Introduction to sensors and transducers, signal conditioning and transmission for measuring and process control systems. Includes AD, DA converter, small servos and actuators. Prerequisite:ELT 205.

ELT 265. Special Topics

1-6 Credits

Topic to be announced in the Schedule of Classes.

ELT 270. Biomedical Equipment Instrumentation 4 Credits (3+2P)

Principles and applications of electronic circuits and devices used in biomedical equipment. Skills taught to include evaluating, troubleshooting and repairing various types of medical equipment. **Prerequisite(s)/Corequisite(s):** ELT 260. Prerequisite(s): ELT 205. Restricted to: Community Colleges only.

Name: Luis Meza, Department Chair

Office Location: DAWD 116A

Phone: (575) 527-7599

Website: https://dacc.nmsu.edu/elt/electronics-technology/

Electronics Technology (Biomedical Electronics) - Associate of Applied Science

Doña Ana Community College 2020-21 Catalog

(68 credits)

NOTE: Students must earn a final grade of C- or better in all required ELT courses and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Ρ	refix	Title	Credits
G	eneral Education		
	elect one course from 2-14 credits ^{1, 2}	four of the following six content areas for a total of	12-14
n		ourses from Areas I, IV, V, and VI; students do onal courses to complete the General Education	
	Area I: Communica	tions	
	ENGL 1110G	Composition I	
	Area IV: Social/Beh	avioral Sciences	
	Select one from the	e following: ³	
	PSYC 1110G	Introduction to Psychology	
	SOCI 1110G	Introduction to Sociology	
	Area V: Humanities		
	Select one from the	e following:	
	ENGL 1410G	Introduction to Literature	
	ENGL 2310G	Introduction to Creative Writing	
	ENGL 2520G	Film as Literature	
	ENGL 2650G	World Literature I	
	HIST 1105G	Making History	
	HIST 1110G	United States History I	

HIST 1120G	United States History II	
HIST 1130G	World History I	
HIST 1140G	World History II	
HIST 1150G	Western Civilization I	
HIST 1160G	Western Civilization II	
HIST 2245G	Islamic Civilizations to 1800	
HIST 2246G	Islamic Civilizations since 1800	
HIST 2250G	East Asia to 1600	
HIST 2251G	East Asia since 1600	
PHIL 1115G	Introduction to Philosophy	
PHIL 1120G	Logic, Reasoning, & Critical Thinking	
PHIL 1140G	Quest for God	
PHIL 1145G	Philosophy, Law, and Ethics	
PHIL 1155G	Philosophy of Music	
PHIL 2110G	Introduction to Ethics	
PHIL 2230G	Philosophical Thought	
, , , , ,	ved New Mexico General Education a V courses listed in the current NMSU Catalog.	
Area VI: Creative a		
Select one from th		
ARTH 1115G	Orientation in Art	
ARTS 1145G	Visual Concepts	
ARTH 2110G	History of Art I	
ARTH 2120G	History of Art II	
DANC 1110G	Dance Appreciation	
MUSC 1110G	Music Appreciation: Jazz	
MUSC 1130G	Music Appreciation: Western Music	
THEA 1110G	Introduction to Theatre	
Or any other appro	ved New Mexico General Education	
General Education Elec	a VI courses listed in the current NMSU Catalog.	
		3
Select one from the for ENGL 2210G	Professional & Technical Communication	3
COMM 1115G	Introduction to Communication	
COMM 1130G	Public Speaking	
Core Requirements	rubiic Speaking	
Select one from the fo	Moving	4
MATH 1250G	Trigonometry & Pre-Calculus ⁴	4
ELT 120	Mathematics for Electronics ⁵	
Major Requirements	Mathematics for Electronics	
Technical Requirement	6	
ELT 110	Electronics I	4
ELT 135	Electronics II	4
ELT 155	Electronics II Electronics CAD and PCB Design	
ELT 160	-	3
ELT 175	Digital Electronics I	
ELT 205	Soldering Practices Semiconductor Devices	3
ELT 225		
ELT 240	Computer Applications for Technicians Introduction to Photonics	3
ELT 260	Instrumentation Control and Signal Conditioning	4
OETS 102	Career Readiness Certification Preparation	1
Concentration Course		
AHS 120	Medical Terminology	3
AHS 202	Legal and Ethical Issues in Health Care	3
BIOL 1130G	Introductory Anatomy & Physiology (non- majors)	4

ELT 270	Biomedical Equipment Instrumentation	4
Total Credits		68

- Each course selected must be from a different area and students cannot take multiple courses in the same area.
- See the <u>General Education</u> (p. 52) section of the catalog for a full list of courses.
- BMGT 240 Human Relations is also an available course but it will not automatically count towards General Education and will need an exception if it is selected.
- 4 Recommended for transfer track.
- ⁵ Recommended for career track.
- A final grade of *C* or better is required in all 100-level ELT courses to progress to 200-level ELT courses.

(68 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must earn a final grade of C- or better in all required ELT courses/Technical Requirements and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Course	Title	Credits
Semester 1		
FALL		
Choose one from the f	following:	4
MATH 1250G	Trigonometry & Pre-Calculus ²	
ELT 120	Mathematics for Electronics ^{1, 2}	
ELT 110	Electronics I	4
ELT 155	Electronics CAD and PCB Design	3
ELT 175	Soldering Practices	3
ELT 225	Computer Applications for Technicians	3
	Credits	17
Semester 2		
SPRING		
Area I: Communication	ns - English Composition Level 1	4
ENGL 1110G	Composition I	
	Fine Arts - Choose one from the following (or any // course in the NMSU/DACC Catalog):	3
ARTH 1115G	Orientation in Art	
ARTH 2110G	History of Art I	
ARTH 2120G	History of Art II	
ARTS 1145G	Visual Concepts	
DANC 1110G	Dance Appreciation	
MUSC 1110G	Music Appreciation: Jazz	
MUSC 1130G	Music Appreciation: Western Music	

ELT 135	Electronics II	
ELT 160	Digital Electronics I	
OETS 102	Career Readiness Certification Preparation	
	Credits	1
Semester 3		
SUMMER		
Area V: Humanities -	Choose one from the following (or any other	
approved Area V cou	rse in the NMSU/DACC Catalog):	
ENGL 1410G	Introduction to Literature	
ENGL 2310G	Introduction to Creative Writing	
ENGL 2520G	Film as Literature	
ENGL 2650G	World Literature I	
HIST 1105G	Making History	
HIST 1110G	United States History I	
HIST 1120G	United States History II	
HIST 1130G	World History I	
HIST 1140G	World History II	
HIST 1150G	Western Civilization I	
HIST 1160G	Western Civilization II	
HIST 2245G	Islamic Civilizations to 1800	
HIST 2246G	Islamic Civilizations since 1800	
PHIL 1115G	Introduction to Philosophy	
PHIL 1120G	Logic, Reasoning, & Critical Thinking	
PHIL 1140G	Quest for God	
PHIL 1145G	Philosophy, Law, and Ethics	
PHIL 1155G	Philosophy of Music	
PHIL 2110G	Introduction to Ethics	
PHIL 2230G	Philosophical Thought	
	Credits	
Semester 4		
FALL		
General Education E from the following:	lective - Area I: Communications - Choose one	
ENGL 2210G	Professional & Technical Communication	
COMM 1115G	Introduction to Communication	
COMM 1130G	Public Speaking	
AHS 120	Medical Terminology	
AHS 202	Legal and Ethical Issues in Health Care	
BIOL 1130G	Introductory Anatomy & Physiology (non- majors)	
ELT 205	Semiconductor Devices	
	Credits	1
Semester 5	-	
SPRING		
	vioral Sciences - Choose one from the following:	
PSYC 1110G	Introduction to Psychology	
SOCI 1110G	Introduction to Sociology	
ELT 240	Introduction to Sociology Introduction to Photonics	
ELT 260	Instrumentation Control and Signal	
ELT 270	Conditioning Biomedical Equipment Instrumentation	
LLI ZIU		
	Credits	1

While ELT 120 meets program requirements, it does not meet the NM General Education Area II: Mathematics requirements.

DIII 01100

Credits

MATH 1250G is recommended for students pursuing Transfer Track. ELT 120 is recommended for students pursuing Career Track.

Electronics Technology (General Electronics) - Associate of Applied Science

Doña Ana Community College 2020-21 Catalog

Title

(65 credits)

Prefix

General Education

NOTE: Students must earn a final grade of C- or better in all required ELT courses and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 65 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Select one course from 12-14 credits ^{1, 2}	four of the following six content areas for a total of	12-14
	ourses from Areas I, IV, V, and VI; students do ional courses to complete the General Education	
Area I: Communica	tions	
ENGL 1110G	Composition I	
Area IV: Social/Beh		
Select one from the	e following: ³	
PSYC 1110G	Introduction to Psychology	
SOCI 1110G	Introduction to Sociology	
Area V: Humanities		
Select one from the	e following:	
ENGL 1410G	Introduction to Literature	
ENGL 2310G	Introduction to Creative Writing	
ENGL 2520G	Film as Literature	
ENGL 2650G	World Literature I	
HIST 1105G	Making History	
HIST 1110G	United States History I	
HIST 1120G	United States History II	
HIST 1130G	World History I	
HIST 1140G	World History II	
HIST 1150G	Western Civilization I	
HIST 1160G	Western Civilization II	
HIST 2245G	Islamic Civilizations to 1800	
HIST 2246G	Islamic Civilizations since 1800	
HIST 2250G	East Asia to 1600	
HIST 2251G	East Asia since 1600	
PHIL 1115G	Introduction to Philosophy	
PHIL 1120G	Logic, Reasoning, & Critical Thinking	
PHIL 1140G	Quest for God	
PHIL 1145G	Philosophy, Law, and Ethics	
PHIL 1155G	Philosophy of Music	

PHIL	2110G	Introduction to Ethics	
PHIL	2230G	Philosophical Thought	
Or an	y other approv	red New Mexico General Education	
Requ	irements Area	V courses listed in the current NMSU Catalog.	
Area	VI: Creative an	d Fine Arts	
Selec	t one from the	following:	
ARTH	l 1115G	Orientation in Art	
ARTS	1145G	Visual Concepts	
ARTH	l 2110G	History of Art I	
ARTH	l 2120G	History of Art II	
DANC	C 1110G	Dance Appreciation	
MUS	C 1110G	Music Appreciation: Jazz	
MUS	C 1130G	Music Appreciation: Western Music	
THEA	1110G	Introduction to Theatre	
		red New Mexico General Education	
		VI courses listed in the current NMSU Catalog.	
	Education Elect		
Select or	ne from the fol	•	3
ENGL	. 2210G	Professional & Technical Communication	
00	M 1115G	Introduction to Communication	
COMI	M 1130G	Public Speaking	
Core Rec	quirements		
Select or	ne from the fol		4
MATI	H 1250G	Trigonometry & Pre-Calculus 4	
ELT 1		Mathematics for Electronics ⁵	
	equirements		
Technica	l Requirements		
ELT 110		Electronics I	4
ELT 135		Electronics II	4
ELT 155		Electronics CAD and PCB Design	3
ELT 160		Digital Electronics I	4
ELT 175		Soldering Practices	3
ELT 205		Semiconductor Devices	4
ELT 225		Computer Applications for Technicians	3
ELT 240		Introduction to Photonics	4
OETS 10	2	Career Readiness Certification Preparation	1
Concentr	ation Coursewo	ork	
ELT 215		Microprocessor Applications I	4
ELT 220		Electronic Communication Systems	4
ELT 235		Digital Electronics II	3

Industrial Control of Calcing

Each course selected must be from a different area and students cannot take multiple courses in the same area.

Instrumentation Control and Signal

65

Conditioning

- See the <u>General Education</u> (p. 52) section of the catalog for a full list of courses.
- BMGT 240 Human Relations is also an available course but it will not automatically count towards General Education and will need an exception if it is selected.
- Recommended for transfer track.

ELT 260

Total Credits

- Recommended for career track.
- A final grade of *C* or better is required in all 100-level ELT courses to progress to 200-level ELT courses.

(65 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must earn a final grade of C- or better in all required ELT courses/Technical Requirements and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 65 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course	Title	Credits
Semester 1		
FALL		
Choose one from the	3	4
MATH 1250G	Trigonometry & Pre-Calculus ²	
ELT 120	Mathematics for Electronics ^{1, 2}	
ELT 110	Electronics I	4
ELT 155	Electronics CAD and PCB Design	3
ELT 175	Soldering Practices	3
ELT 225	Computer Applications for Technicians	3
	Credits	17
Semester 2		
SPRING		
Area I: Communication	ons - English Composition Level 1	4
ENGL 1110G	Composition I	
General Education Ele from the following:	ective - Area I: Communications - Choose one	3
COMM 1115G	Introduction to Communication	
COMM 1130G	Public Speaking	
ENGL 2210G	Professional & Technical Communication	
ELT 135	Electronics II	4
ELT 160	Digital Electronics I	4
	Credits	15
Semester 3		
SUMMER		
Area IV: Social/Behav	rioral Sciences	3
PSYC 1110G or SOCI 1110G	Introduction to Psychology or Introduction to Sociology	
	Choose one from the following (or any other rse in the NMSU/DACC Catalog):	3
ENGL 1410G	Introduction to Literature	
ENGL 2310G	Introduction to Creative Writing	
ENGL 2520G	Film as Literature	
ENGL 2650G	World Literature I	
HIST 1105G	Making History	
HIST 1110G	United States History I	
HIST 1120G	United States History II	
HIST 1130G	World History I	
HIST 1140G	World History II	

HIST 1150G	Western Civilization I	
HIST 1160G	Western Civilization II	
HIST 2245G	Islamic Civilizations to 1800	
HIST 2246G	Islamic Civilizations since 1800	
HIST 2250G	East Asia to 1600	
HIST 2251G	East Asia since 1600	
PHIL 1115G	Introduction to Philosophy	
PHIL 1120G	Logic, Reasoning, & Critical Thinking	
PHIL 1140G	Quest for God	
PHIL 1145G	Philosophy, Law, and Ethics	
PHIL 1155G	Philosophy of Music	
PHIL 2110G	Introduction to Ethics	
PHIL 2230G	Philosophical Thought	
	Credits	6
Semester 4		
FALL		
ELT 205	Semiconductor Devices	4
ELT 215	Microprocessor Applications I	4
ELT 220	Electronic Communication Systems	4
ELT 235	Digital Electronics II	3
OETS 102	Career Readiness Certification Preparation	1
	Credits	16
Semester 5		
SPRING		
	d Fine Arts - Choose one from the following (or any VI course in the NMSU/DACC Catalog):	3
ARTH 1115G	Orientation in Art	
ARTH 2110G	History of Art I	
ARTH 2120G	History of Art II	
ARTS 1145G	Visual Concepts	
DANC 1110G	Dance Appreciation	
MUSC 1110G	Music Appreciation: Jazz	
MUSC 1130G	Music Appreciation: Western Music	
THEA 1110G	Introduction to Theatre	
ELT 240	Introduction to Photonics	4
ELT 260	Instrumentation Control and Signal Conditioning	4
	Credits	11
-	Total Credits	65

- While ELT 120 Mathematics for Electronics meets program requirements, it does not meet the NM General Education Area II: Mathematics requirements.
- MATH 1250G Trigonometry & Pre-Calculus is recommended for students pursuing the Transfer Track.

 ELT 120 Mathematics for Electronics is recommended for students pursuing the Career Track.

Biomedical Electronics - Certificate of Completion

Doña Ana Community College 2020-21 Catalog

(48 credits)

NOTE: Students must earn a final grade of C- or better in all required ELT courses/Technical Requirements and achieve a cumulative grade-

point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 48 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
Prerequisites		
ELT 110	Electronics I	4
ELT 120	Mathematics for Electronics	4
ELT 205	Semiconductor Devices	4
ELT 260	Instrumentation Control and Signal Conditioning	4
Related Requirements		
AHS 120	Medical Terminology	3
AHS 202	Legal and Ethical Issues in Health Care	3
OETS 102	Career Readiness Certification Preparation	1
BIOL 1130G	Introductory Anatomy & Physiology (non-majors)	4
Technical Requirement	ts	
ELT 135	Electronics II	4
ELT 155	Electronics CAD and PCB Design	3
ELT 160	Digital Electronics I	4
ELT 175	Soldering Practices	3
ELT 225	Computer Applications for Technicians	3
ELT 270	Biomedical Equipment Instrumentation	4
Total Credits		48

(48 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must earn a final grade of C- or better in all required ELT courses/Technical Requirements and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University certificate requirements to total at least 48 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course	Title	Credits
Semester 1		
ELT 110	Electronics I	4
ELT 120	Mathematics for Electronics	4
ELT 155	Electronics CAD and PCB Design	3
ELT 175	Soldering Practices	3
ELT 225	Computer Applications for Technicians	3
	Credits	17
Semester 2		
ELT 135	Electronics II	4

ELT 160	Digital Electronics I	4
OETS 102	Career Readiness Certification Preparation	1
	Credits	9
Semester 3		
AHS 120	Medical Terminology	3
AHS 202	Legal and Ethical Issues in Health Care	3
BIOL 1130G	Introductory Anatomy & Physiology (non- majors)	4
ELT 205	Semiconductor Devices	4
	Credits	14
Semester 4		
ELT 260	Instrumentation Control and Signal Conditioning	4
	Discussificat Continuous to stance and attention	4
ELT 270	Biomedical Equipment Instrumentation	4
ELT 270	Credits	8

Electronics Technology - Certificate of Completion

Doña Ana Community College 2020-21 Catalog

(26 credits)

NOTE: Students must earn a final grade of C- or better in all required ELT courses/Technical Requirements and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University certificate requirements to total at least 26 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits	
Technical Requirements			
ELT 110	Electronics I	4	
ELT 120	Mathematics for Electronics	4	
ELT 135	Electronics II	4	
ELT 155	Electronics CAD and PCB Design	3	
ELT 160	Digital Electronics I	4	
OETS 102	Career Readiness Certification Preparation	1	
Approved ELT elec	etives	6	
Total Credits		26	

(26 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must earn a final grade of C- or better in all required ELT courses/Technical Requirements and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University certificate requirements to total at least 26 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course	Title	Credits
Semester 1		
ELT 110	Electronics I	4
ELT 120	Mathematics for Electronics	4
ELT 155	Electronics CAD and PCB Design	3
Approved ELT Elective		3
	Credits	14
Semester 2		
ELT 135	Electronics II	4
ELT 160	Digital Electronics I	4
OETS 102	Career Readiness Certification Preparation	1
Approved ELT Elective		3
	Credits	12
	Total Credits	26

Emergency Medical Services

Associate of Applied Science Degree: Emergency Medical Services

Certificates of Achievement:

- · First Responder Prehospital
- · EMT Basic
- · EMT Intermediate

Certificate of Completion

· EMT Paramedic

Prehospital emergency medical care is a challenging and exciting profession. People's lives often depend on the quick reaction and competent care of emergency medical technicians (EMTs) and paramedics.

Emergency medical services (EMS) professionals may work at any of four different levels: First responder, EMT-basic, EMT-intermediate, and paramedic. Upon successful completion of training, students are eligible for employment in many types of emergency medical systems nationwide—in fire departments, municipal services, private ambulance services, federal services, industry, hospital emergency departments, and hospital-based ambulance systems. The demand for EMS professionals is increasing.

DACC offers all levels of EMS education, as well as an opportunity to earn an associate of applied science degree at the paramedic level. Successful completion of an EMS program will allow for certification/licensure testing at the state and national level.

At each EMS program level, students gain additional knowledge and skills to enable them to function in the clinical and field settings with nurses, physicians, and other healthcare professionals. In classes, students learn about anatomy and physiology, the pathophysiology of diseases, traumatic injuries, pharmacology, and cardiac care. Students acquire skills through laboratory practice, clinical experience in hospitals, and field experience with ambulance services throughout the state. Students may be scheduled at a variety of clinical and field sites which include areas outside Las Cruces.

Program Accreditation

The Emergency Medical Services Program is accredited by the Commission on Accreditation of Allied Health Education Programs (www.caahep.org) upon the recommendation of the Committee on Accreditation of Educational Programs for the Emergency Medical Services Profession (CoAEMSP).

Commission on Accreditation of Allied Health Education Programs (CAAHEP)

1361 Park Street Clearwater, FL 33756 727-210-2350 www.caahep.org

Committee on Accreditation of Educational Programs for the Emergency Medical Services Profession (CoAEMSP)

8301 Lakeview Parkway Suite 111-312 Rowlett, TX 75088 214-703-8445

FAX: 214-703-8992

www.coaemsp.org

In addition, the program is approved by the New Mexico Office of Health Emergency Management.

Required Skills and Abilities

All EMS programs require that the student be able to:

- lift, carry and balance up to 125 pounds (250 pounds with assistance)
- carry out emergency and non-emergency patient care, including, light extrication (i.e., be able to assume a variety of postural positions and be capable of physical maneuvers ranging from crawling, kneeling, squatting, twisting, turning, and bending, to climbing stairs and ladders)
- withstand varied environmental conditions such as extreme heat, cold, and moisture

Program Prerequisites and Entrance Requirements

Specific entrance requirements and prerequisites vary depending on the qualifications of the applicant and the level of training/licensure sought:

EMT-Basic

- Passed approved background check and drug screening
- · Documentation of vaccinations:
 - · MMR twice since 1980 or Rubella and Rubeola titers;
 - TB screening with expiration past end of semester;
 - · Varicella immunity (titer or proof of vaccination accepted0
 - TDAP within 10 years
 - · Hepatitis B series or titers or declination waiver
 - · Flu shot if in season (October-March)
- Successful completion of OEEM 153 either as a Pre or Corequsite to be eligible to receive an EMT-Basic Certificate.
- OEEM 153 Introduction to Anatomy and Physiology for the EMS Provider
- · Eligible for ENGL 1110G Composition I

EMT-Intermediate

- Copy of current New Mexico State Emergency Technician—Basic license OR successful completion of EMT—Basic coursework and EMT—Basic license in hand by first day of class of EMT—Intermediate program
- · Score of no less than 80 percent on departmental entrance exam
- · Passed approved background check and drug screening
- · Documentation of vaccinations:
 - · MMR twice since 1980 or Rubella and Rubeola titers:
 - · TB screening with expiration past end of semester;
 - Varicella immunity (titer or proof of vaccination accepted)
 - · TDAP within 10 years
 - · Hepatitis B series or titers or declination waiver
 - · Flu shot if in season (October-March)

EMT-Paramedic

Applicants will be judged according to the following criteria and submissions:

- · Copy of current New Mexico EMT-Basic or EMT-Intermediate license
- Written, oral, and practical assessment exams at the EMT–Basic or EMT–Intermediate level, depending on current licensure
- · Completion of the following courses:

Prefix	Title	Credits
OEEM 153	Introduction to Anatomy and Physiology for the EMS Provider	3
OEEM 201	Human Pathophysiology	3
OEEM 206	Introduction to Advanced Prehospital Care	3
OEEM 207	Introduction to Pharmacology	3

- · Copy of current healthcare provider CPR card
- · High school and/or college transcript(s) and GPA
- · Accuplacer/ACT scores in English and math
- Completed departmental application, including résumé, and letter of intent
- · Letters of recommendation
- Passed approved background check and drug screening
- · Documentation of vaccinations:
 - MMR twice since 1980 or Rubella and Rubeola titers;
 - · TB screening with expiration past end of semester;
 - Varicella immunity (titer or proof of vaccination accepted0
 - · TDAP within 10 years
 - · Hepatitis B series or titers or declination waiver
 - · Flu shot if in season (October-March)

To graduate with a certificate or an associate degree, students must earn a C or better in all OEEM courses, and achieve a cumulative grade-point average of at least 2.0.

Emergency Medical Services - Associate of Applied Science (p. 248)

EMT - Basic - Certificate of Achievement (p. 250)

EMT - Intermediate - Certificate of Achievement (p. 251)

EMT Paramedic - Certificate of Completion (p. 251)

First Responder Prehospital - Certificate of Achievement (p. 253)

OEEM 101. CPR for the Health Care Professional 1 Credit (1)

Students learn identification and response to airway and circulation emergencies, including use of a SAED and accessing the EMS system. This course is taught using the American Heart Association guidelines for course completion. Required: grade of C or better.

OEEM 103. Heartsaver First Aid/CPR

1 Credit (1)

Students learn how to identify and respond to airway, circulation and basic first aid emergencies, to include using a SAED and accessing the EMS system. This course is intended for students who are not Allied Health Majors and utilizes the American Heart Association guidelines for course completion. Restricted to: Community Colleges only.

OEEM 106. Advanced First Aid

2 Credits (2)

Theory and advanced first aid skills taught emphasizing recognition and providing care for injury or sudden illness until professional medical help arrives. Course meets and/or exceeds the Red Cross or National Safety Council standards. Corequisite(s): OEEM 101

OEEM 115. First Responder Prehospital Professional 3 Credits (2+3P)

Provides training in prehospital medical and traumatic emergencies. Consent of instructor required. Requires a C or better to pass. Restricted to majors.

Corequisite(s): OEEM 101.

OEEM 120. Emergency Medical Technician Basic 6 Credits (6)

EMT-Basic skills to include care of soft tissue and muscular/skeletal injuries, circulatory, nervous, general medical and respiratory emergencies. Requires a 'C' or better to pass. May be repeated up to 6 credits. Consent of Instructor required.

Corequisite(s): OEEM 101,OEEM 120L,OEEM 121.

Prerequisite(s)/Corequisite(s): OEEM 153. Restricted to: OEEM majors. Restricted to Community Colleges campuses only.

OEEM 120 L. Emergency Medical Technician Basic Lab 2 Credits (6P)

EMT-Basic skills development with emphasis on assessment, skills competency and team-work in patient care in the prehospital setting. May be repeated up to 2 credits.

Corequisite(s): OEEM 101, OEEM 120, OEEM 121.

Prerequisite(s)/Corequisite(s): OEEM 153. Restricted to: OEEM majors. Restricted to Community Colleges campuses only.

OEEM 121. Emergency Medical Technician Basic Field/Clinical 1 Credit (3P)

Covers the patient care experience provided through assigned shifts in the hospital and/or ambulance setting. Requires a 'C' or better to pass. May be repeated up to 1 credits. Consent of Instructor required.

Prerequisite(s)/Corequisite(s): OEEM 101, OEEM 120, OEEM 120L

OEEM 153. Restricted to: OEEM majors. Restricted to Community Colleges campuses only.

OEEM 122. Emergency Medical Technician Basic Advanced Field/ Internship

2 Credits (6P)

Expanded patient care experience provided through assigned shifts in the hospital and/or ambulance setting. May be repeated up to 2 credits. Consent of Instructor required. Restricted to: OEEM majors. Restricted to Community Colleges campuses only.

Prerequisite(s): Current EMT-basic license and consent of instructor.

OEEM 150. Emergency Medical Technician Intermediate 5 Credits (5)

Theory of the roles, responsibilities and scope of practice of the EMT-Intermediate. Assessment and management of respiratory, cardiac, trauma, environmental, behavior, reproduction, and childhood emergencies. May be repeated up to 5 credits. Consent of Instructor required. Restricted to: OEEM majors. Restricted to Community Colleges campuses only.

Prerequisite(s): Current EMT-basic license, pretest and consent of instructor.

OEEM 150 L. Emergency Medical Technician Intermediate Lab 2 Credits (6P)

EMT-Intermediate skills development with an emphasis on assessment, skills competency, and team work in patient care in the prehospital setting. Requires a C or better to pass.

Prerequisite(s)/Corequisite(s): OEEM 150,0EEM 151. Restricted to: OEEM majors. Restricted to Community Colleges campuses only.

OEEM 151. Emergency Medical Technician Intermediate Field/Clinical 2 Credits (6P)

Patient care experience provided through assigned shifts in the hospital and/or ambulance setting.

Prerequisite(s)/Corequisite(s): OEEM 150, OEEM 150 L. Restricted to: OEEM majors. Restricted to Community Colleges campuses only.

OEEM 153. Introduction to Anatomy and Physiology for the EMS Provider 3 Credits (3)

To properly assess and manage a patient, a prehospital provider must have a solid foundation in human anatomy and physiology. This course provides a systematic approach to building this foundation. Grade of 'C' or better is required to pass the course. Consent of Instructor required. Restricted to Community Colleges campuses only.

OEEM 155. Special Topics

1-6 Credits

Specific topics to be listed in Schedule of Classes. May be repeated for a maximum of 10 credits.

OEEM 158. Emergency Medical Technician-Combination Refresher 2 Credits (2)

A comprehensive review of prehospital medicine for the prehospital care provider from the first responder level through the EMT Intermediate. New material relevant to recertification of the New Mexico First Responder, EMT Basic and EMT Intermediate licensure included. Graded S/U.

OEEM 177. Emergency Medical Services Instructor 4 Credits (4)

Theory of student learning, methodology, instructional components, evaluation, and course coordination for the EMS profession. May be repeated up to 4 credits. Consent of Instructor required. Restricted to Community Colleges campuses only.

Prerequisite(s): Minimum of an EMT-Basic License required.

OEEM 201. Human Pathophysiology 3 Credits (2+3P)

Overview of anatomy and physiology. Emphasis on human body pathophysiology including a medical illness component. Requires a 'C' or better to pass. May be repeated up to 3 credits. Consent of Instructor required. Restricted to: OEMS, OEEM majors. Restricted to Community Colleges campuses only.

Prerequisite(s): OEEM 120, OEEM 120 L.

OEEM 202. EMT-Paramedic Respiratory Emergencies 3 Credits (2+3P)

Review anatomy, physiology and pathophysiology of the respiratory system. Assessment and management of respiratory emergencies and acute respiratory failure in the prehospital setting. Requires a 'C' or better to pass. May be repeated up to 3 credits. Consent of Instructor required. Restricted to: OEMS,OEEM majors. Restricted to Community Colleges campuses only.

Prerequisite(s): OEEM 212.

OEEM 203. EMT-Paramedic Trauma Emergencies 3 Credits (2+3P)

Study of the effects of trauma on the human body. Assessment and management of trauma patients and scenes, including vehicular extrication. May be repeated up to 3 credits. Consent of Instructor required. Restricted to: OEEM majors. Restricted to Community Colleges campuses only.

Prerequisite(s): OEEM 216.

OEEM 206. Introduction to Advanced Prehospital Care 3 Credits (2+3P)

Overview of prehospital care including roles and responsibilities of EMT-P, EMS systems, medical, legal, ethical issues, stress management, medical terminology, medical report writing and communication. Includes ridealong with ambulance and dispatch observation. Requires a C or better to pass. Restricted to majors. Consent of instructor required. Restricted to: Community Colleges only. Restricted to OEEM majors.

Prerequisite(s): OEEM 120.

OEEM 207. Introduction to Pharmacology 3 Credits (2+3P)

Drug actions, factors modifying drugs and dosages: characteristics of drug effects, and drug history and dosages. Prehospital protocol, transport, and common patient prescription medications. Restricted to majors. Requires a C or better to pass. Restricted to: Community Colleges only. Restricted to OEEM majors.

Prerequisite(s): OEEM 120.

OEEM 210. Cardiac Rhythm Interpretation 3 Credits (2+3P)

Cardiac conduction system: electrophysiology, electrocardiogram, monitor, atrial, sinus, ventricular and junctional dysrhythmias, multiple lead EKG and 12 lead EKG interpretation. Requires a 'C' or better to pass. May be repeated up to 3 credits. Consent of Instructor required. Restricted to: OEEM, OEMS majors. Restricted to Community Colleges campuses only.

Prerequisite(s): OEEM 201, OEEM 206, OEEM 207.

OEEM 212. EMT-Paramedic Cardiovascular Emergencies 3 Credits (2+3P)

Review anatomy, physiology, and pathophysiology of cardiovascular system. Assessment and management of cardiovascular emergencies in the prehospital setting. Requires a 'C' or better to pass. May be repeated up to 3 credits. Consent of Instructor required. Restricted to: OEMS,OEEM majors. Restricted to Community Colleges campuses only.

Prerequisite(s): OEEM 210.

OEEM 213. EMT-Paramedic: Medical Emergencies I 3 Credits (2+3P)

Study of the disease process; assessment and management of neurological, endocrine, gastrointestinal, renal emergencies and infectious disease. Requires a 'C' or better to pass. May be repeated up to 3 credits. Consent of Instructor required. Restricted to: OEEM, OEMS majors. Restricted to Community Colleges campuses only.

Prerequisite(s): OEEM 212.

OEEM 214. EMT--Paramedic: Medical Environmental Emergencies II 3 Credits (2+3P)

Study of disease process, assessment, and management of poisoning, drug and alcohol abuse, environmental, behavioral and geriatric emergencies. Requires a 'C' or better to pass. May be repeated up to 3 credits. Consent of Instructor required. Restricted to: OEMS, OEEM majors. Restricted to Community Colleges campuses only.

Prerequisite(s): OEEM 213.

OEEM 216. EMT-Paramedic: Reproductive and Childhood Emergencies 3 Credits (2+3P)

Covers anatomy, physiology, disease processes, assessment and management of male and female reproductive system emergencies, childhood emergencies and growth and development. Restricted to majors. Requires a C or better to pass. Restricted to: Community Colleges only

Prerequisite(s): OEEM 214 and consent of instructor.

OEEM 218. Pediatric Advance Life Support for the Healthcare Professional

1 Credit (1)

Identify and respond to life threatening pediatric emergencies. Taught using the American Heart Association guidelines for course completion. Graded S/U.

Prerequisite: OEEM 101.

OEEM 219. Advance Cardiac Life Support for the Healthcare Provider 1 Credit (1)

Identify and respond to life threatening cardiac emergencies. Taught using the American Heart Association guidelines for course completion. Graded S/U.

Prerequisite: OEEM 101.

OEEM 230. EMT-Paramedic Clinical Experience I 3 Credits (9P)

Assigned clinical experiences in patient assessment and specific management techniques. Successful completion includes minimum required hours and completion of course objectives. Restricted to majors.

Requires a C or better to pass. **Prerequisite:** consent of instructor.

OEEM 231. EMT-Paramedic Clinical Experience II 3 Credits (9P)

Assigned clinical experiences in patient assessment and specific management techniques. Successful completion includes minimum required hours and completion of course objectives. Requires a 'C' or better to pass. May be repeated up to 3 credits. Consent of Instructor required.

Prerequisite(s)/Corequisite(s): OEEM 230. Restricted to: OEMS,OEEM majors. Restricted to Community Colleges campuses only.

OEEM 240. EMT-Paramedic Field Experience I 3 Credits (9P)

Advanced prehospital skills and knowledge. Successful completion of at least the minimum required hours and course objectives. Restricted to majors. Requires a C or better to pass.

Prerequisite: consent of instructor.

OEEM 241. EMT-Paramedic Field Experience II 3 Credits (9P)

Continued focus on advanced prehospital skills and knowledge, with increasing responsibility for patient care. Successful completion includes meeting at least the minimum required hours and course objectives.

Prerequisite(s)/Corequisite(s): OEEM 240. Requires a C- or better to pass.

OEEM 242. EMT-Paramedic Field Internship 3 Credits (9P)

Emphasis on total patient care responsibility and team leadership skills. Successful completion includes meeting the minimum hours required and course objectives. Pre/ Consent of Instructor required. Restricted to: OEEM majors. Restricted to Community Colleges campuses only. **Prerequisite(s)**: OEEM 231, OEEM 241.

OEEM 243. EMT-Paramedic Preparation for Practice 2 Credits (2)

Comprehensive final program testing to prepare for licensing examination. Requires a 'C' or better to pass. May be repeated up to 2 credits. Consent of Instructor required. Restricted to: OEMS, OEEM majors. Restricted to Community Colleges campuses only.

Prerequisite(s): OEEM 242.

OEEM 247. Emergency Medical Technician - Paramedic Refresher 2 Credits (1+3P)

A comprehensive review of prehospital emergency medicine for the EMT Paramedic. New material relevant to recertification of the New Mexico and Nationally Registered Paramedic licensure. Graded S/U.

OEEM 253. Critical Care Emergency Medical Transport Program 6 Credits (5+6P)

This course will provide further education to Paramedics, Registered Nurses and Registered Respiratory Therapists who wish to function as part of a critical care transport team. Consent of instructor required. Restricted to: Community Colleges only.

Prerequisite(s): Licensed Paramedic, Registered Nurse or Registered Respiratory Therapist with one or more years experience.

Name: Ann Bellows, Program Director

Office Location: DASR 220J

Phone: (575) 527-7645

Website: https://dacc.nmsu.edu/ems/

Emergency Medical Services - Associate of Applied Science

Doña Ana Community College 2020-21 Catalog

Students wishing to graduate with an Associate Degree of Applied Science in Emergency Medical Services will need to complete a minimum of 69-70 credits and this is only an additional 16-17 credits above those required for the Paramedic Certificate. The Core and Related Requirements can be completed before, during, or after the Technical Requirements.

Students may take the general education courses for the associate of applied science at any time; however, courses listed in the 'Technical Program Requirements' section (which are common to both the associate degree and certificate programs) must be taken in the prescribed sequence. In order to progress through the program, students must meet specific departmental grading criteria in every course taken. This portion of the curriculum must be completed within a three-year period. Thus, those opting to study on a part-time basis are advised to plan carefully in order to take courses in the correct sequence.

Applications for the Paramedic program may be requested directly from the EMS office (room DASR 220, telephone 575-527-7645).

To graduate with a certificate or an associate degree, students must earn a C or better in all OEEM courses, and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

(69-70 credits)

Prefix

OEEM 207

Title

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 69-70 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

General Education		
Select one course from 12-14 credits ^{1, 2}	four of the following six content areas for a total of	12-14
This degree requires c	ourses from Areas I, II, III, and IV; students do	
not need to take addit	ional courses to complete the General Education	
requirements.		
Area I: Communica	tions	
Select one Commu	nications Course from the following:	
ENGL 1110G	Composition I ³	
ENGL 2210G	Professional & Technical Communication	
COMM 1115G	Introduction to Communication	
COMM 1130G	Public Speaking	
Area II: Mathematic	os .	
MATH 1220G	College Algebra	
or MATH 1130G	Survey of Mathematics	
Area III: Laboratory	Sciences - Choose one from the following:	
C S 171G	Introduction to Computer Science	
BIOL 1190G	Contemporary Problems in Biology	
CHEM 1120G	Introduction to Chemistry Lecture and	
	Laboratory (non majors)	
BIOL 1120G	Human Biology	
& BIOL 1120L	and Human Biology Laboratory	
PHYS 1115G	Survey of Physics with Lab	
PHYS 2230G	General Physics for Life Science I	
& PHYS 2230L	and Laboratory to General Physics for Life Science I	
Area IV: Social/Beh	avioral Sciences	
PSYC 1110G	Introduction to Psychology ³	
or SOCI 1110G	Introduction to Sociology	
Area V: Humanities	3,	
Area VI: Creative ar	nd Fine Arts	
General Education Elec	tive ²	3
Core Requirements		
BMGT 140	Principles of Supervision I	3
AHS 120	Medical Terminology	3
or HIT 150	Introduction to Medical Terminology	
Major Requirements	militadollori to Medical Terrimology	
Technical Requirements	\$	
OEEM 201	Human Pathophysiology ²	3
OEEM 202	EMT-Paramedic Respiratory Emergencies	3
OEEM 203	EMT-Paramedic Trauma Emergencies	3
OEEM 203 OEEM 206	Introduction to Advanced Prehospital Care ²	3
OFFM 207	Introduction to Advanced Prenospital Care	3

Introduction to Pharmacology²

OEEM 210	Cardiac Rhythm Interpretation	3
OEEM 212	EMT-Paramedic Cardiovascular Emergencies	3
OEEM 213	EMT-Paramedic: Medical Emergencies I	3
OEEM 214	EMT–Paramedic: Medical Environmental Emergencies II	3
OEEM 216	EMT-Paramedic: Reproductive and Childhood Emergencies	3
OEEM 230	EMT-Paramedic Clinical Experience I	3
OEEM 231	EMT-Paramedic Clinical Experience II	3
OEEM 240	EMT-Paramedic Field Experience I	3
OEEM 241	EMT-Paramedic Field Experience II	3
OEEM 242	EMT-Paramedic Field Internship	3
OEEM 243	EMT-Paramedic Preparation for Practice	2
Total Credits		69-70

- Each course selected must be from a different area and students cannot take multiple courses in the same area.
- See the <u>General Education</u> (p. 52) section of the catalog for a full list of courses.
- Courses are identical to those offered at New Mexico State University Las Cruces (main) Campus.
- Courses are required for admission to Paramedic program.

Some prerequisite courses are required for admission to the Emergency Medical Services program, but are not calculated in the degree credit total. See Overview page for complete Program Prerequisites and Entrance Requirements (p. 245). Specific entrance requirements/ prerequisites vary depending on the qualifications of the applicant and the level of training/licensure sought.

(69-70 credits)

Credits

3

A Suggested Plan of Study - The following plan is for courses required AFTER admission to the program.

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

Students wishing to graduate with an Associate Degree of Applied Science in Emergency Medical Services will need to complete a minimum of 69 credits and this is only an additional 16-17 credits above those required for the Paramedic Certificate. The Core and Related Requirements can be completed before, during, or after the Technical Requirements.

Students may take the general education courses for the associate of applied science at any time; however, courses listed in the 'Technical Program Requirements' section (which are common to both the associate degree and certificate programs) must be taken in the prescribed sequence. In order to progress through the program, students must meet specific departmental grading criteria in every course taken. This portion of the curriculum must be completed within a three-year period. Thus, those opting to study on a part-time basis are advised to plan carefully in order to take courses in the correct sequence.

Applications for the Paramedic program may be requested directly from the EMS office (room DASR 220, telephone 575-527-7645).

Course

To graduate with a certificate or an associate degree, students must earn a C or better in all OEEM courses, and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

(69-70 credits)

Title

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 69 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course	ritte	Credits
Semester 1		
SPRING		
OEEM 201	Human Pathophysiology	3
OEEM 206	Introduction to Advanced Prehospital Care	3
OEEM 207	Introduction to Pharmacology	3
	Credits	9
Semester 2		
SUMMER		
AHS 120	Medical Terminology	3
OEEM 210	Cardiac Rhythm Interpretation	3
	Credits	6
Semester 3		
FALL		
OEEM 202	EMT-Paramedic Respiratory Emergencies	3
OEEM 203	EMT-Paramedic Trauma Emergencies	3
OEEM 212	EMT-Paramedic Cardiovascular Emergencies	3
OEEM 213	EMT-Paramedic: Medical Emergencies I	3
OEEM 214	EMT-Paramedic: Medical Environmental	3
<u> </u>	Emergencies II	· ·
OEEM 216	EMT-Paramedic: Reproductive and Childhood	3
	Emergencies	
	Credits	18
Semester 4		
SPRING		
Area I: Communicatio	ns - Choose one from the following:	3-4
ENGL 1110G	Composition I	
ENGL 2210G	Professional & Technical Communication	
COMM 1115G	Introduction to Communication	
COMM 1130G	Public Speaking	
OEEM 230	EMT-Paramedic Clinical Experience I	3
OEEM 231	EMT-Paramedic Clinical Experience II	3
OEEM 240	EMT-Paramedic Field Experience I	3
OEEM 241	EMT-Paramedic Field Experience II	3
	Credits	15-16
Semester 5		
SUMMER		
BMGT 140	Principles of Supervision I	3
OEEM 242	EMT-Paramedic Field Internship	3
OEEM 243	EMT-Paramedic Preparation for Practice	2
	Credits	8
Semester 6	5.555	O
FALL		
Area II: Mathematics		3
MATH 1130G	Survey of Mathematics	3

Α	rea III: Laboratory Sc	iences - Choose one from the following:	4
	BIOL 1120G	Human Biology	
	BIOL 1190G	Contemporary Problems in Biology	
	C S 171G	Introduction to Computer Science	
	CHEM 1120G	Introduction to Chemistry Lecture and Laboratory (non majors)	
	PHYS 1115G	Survey of Physics with Lab	
	PHYS 2230G	General Physics for Life Science I	
Α	rea IV: Social/Behavi	oral Sciences	3
	PSYC 1110G or SOCI 1110G	Introduction to Psychology or Introduction to Sociology	
		ctive - Choose one course from the NM General nts in the NMSU/DACC Catalog.	3
	Credits		13
		Total Credits	69-70

EMT - Basic - Certificate of Achievement

Doña Ana Community College 2020-21 Catalog

(10 credits)

Credits

This program makes possible rapid completion and quick entry into the workforce. Those who complete the program will be qualified to work in various settings within the emergency medical services field, including hospitals, ambulance services, and fire departments. The credits earned also may be applied toward completion of the EMT–Intermediate program and the associate degree in emergency medical services.

Prerequisites for Entry into EMT-Basic Program

See overview page, <u>Program Prerequisites and Entrance Requirements</u> (p. 245).

To graduate with a certificate or an associate degree, students must earn a C or better in all OEEM courses, and achieve a cumulative grade-point average of at least 2.0.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 10 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
Technical Require	ements	
OEEM 101	CPR for the Health Care Professional	1
OEEM 120	Emergency Medical Technician Basic	6
OEEM 120 L	Emergency Medical Technician Basic Lab	2
OEEM 121	Emergency Medical Technician Basic Field/ Clinical	1
Total Credits		10

See Overview page for complete <u>Program Prerequisites and Entrance</u> <u>Requirements</u> (p. 245).

(10 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

To graduate with a certificate or an associate degree, students must earn a C or better in all OEEM courses, and achieve a cumulative grade-point average of at least 2.0.

Students must complete all University certificate requirements to total at least 10 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course	Title	Credits
Semester 1		
OEEM 101	CPR for the Health Care Professional	1
OEEM 120	Emergency Medical Technician Basic	6
OEEM 120 L	Emergency Medical Technician Basic Lab	2
OEEM 121	Emergency Medical Technician Basic Field/ Clinical	1
	Credits	10
	Total Credits	10

EMT - Intermediate - Certificate of Achievement

Doña Ana Community College 2020-21 Catalog

(9 credits)

This program, which prepares students for EMT–Intermediate licensure, is also designed for those who desire to enter the workforce quickly. Graduates will be qualified to work in various settings within the emergency medical services field, including hospitals, ambulance services, and fire departments. Credits earned in this program also apply toward the associate degree in emergency medical services.

Prerequisites for Entry into EMT-Intermediate Program

See overview page, <u>Program Prerequisites and Entrance Requirements</u> (p. 245).

To graduate with a certificate or an associate degree, students must earn a C or better in all OEEM courses, and achieve a cumulative grade-point average of at least 2.0.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 9 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
Technical Requirer	nents	
OEEM 150	Emergency Medical Technician Intermediate	5

OEEM 150 L	Emergency Medical Technician Intermediate Lab	2
OEEM 151	Emergency Medical Technician Intermediate Field/Clinical	2
Total Credits		9

See Overview page for complete <u>Program Prerequisites and Entrance</u> <u>Requirements</u> (p. 245).

(9 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

To graduate with a certificate or an associate degree, students must earn a C or better in all OEEM courses, and achieve a cumulative grade-point average of at least 2.0.

Students must complete all University certificate requirements to total at least 9 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course	Title	Credits
Semester 1		
OEEM 150	Emergency Medical Technician Intermediate	5
OEEM 150 L	Emergency Medical Technician Intermediate Lab	2
OEEM 151	Emergency Medical Technician Intermediate Field/Clinical	2
	Credits	9
	Total Credits	9

EMT Paramedic - Certificate of Completion

Doña Ana Community College 2020-21 Catalog

The EMT-Paramedic certificate program consists of a minimum of 47 credits while the associate of applied science degree program is a minimum of 69 credits in length. Students may take the general education courses for the associate of applied science degree at any time; however, courses listed in the 'Technical Program Requirements' section (which are common to both the associate degree and certificate programs) must be taken in the prescribed sequence. In order to progress through the program, students must meet specific departmental grading criteria in every course taken. This portion of the curriculum must be completed within a three-year period. Thus, those opting to study on a part-time basis are advised to plan carefully in order to take courses in the correct sequence.

Applications for the Paramedic program may be requested from the EMS office (room DASR 220, telephone 575-527-7645).

To graduate with a certificate or an associate degree, students must earn a C or better in all OEEM courses, and achieve a cumulative grade-point average of at least 2.0.

Prerequisites for Entry into the Paramedic Program

See overview page, <u>Program Prerequisites and Entrance Requirements</u> (p. 245).

Prefix	Title	Credits
OEEM 150	Emergency Medical Technician Intermediate ¹	5
OEEM 150 L	Emergency Medical Technician Intermediate Lab ¹	2
OEEM 151	Emergency Medical Technician Intermediate Field/Clinical ¹	2
OEEM 153	Introduction to Anatomy and Physiology for the EMS Provider	3
OEEM 201	Human Pathophysiology	3
OEEM 206	Introduction to Advanced Prehospital Care	3
OEEM 207	Introduction to Pharmacology	3

Students who are currently licensed in New Mexico at the EMT-Intermediate level may be allowed to take a proficiency exam in lieu of this course.

(47 credits)

Prefix	Title	Credits
Technical Requirem	ents	
OEEM 201	Human Pathophysiology ²	3
OEEM 202	EMT-Paramedic Respiratory Emergencies	3
OEEM 203	EMT-Paramedic Trauma Emergencies	3
OEEM 206	Introduction to Advanced Prehospital Care ²	3
OEEM 207	Introduction to Pharmacology ²	3
OEEM 210	Cardiac Rhythm Interpretation	3
OEEM 212	EMT-Paramedic Cardiovascular Emergencies	3
OEEM 213	EMT-Paramedic: Medical Emergencies I	3
OEEM 214	EMT–Paramedic: Medical Environmental Emergencies II	3
OEEM 216	EMT-Paramedic: Reproductive and Childhood Emergencies	3
OEEM 230	EMT-Paramedic Clinical Experience I	3
OEEM 231	EMT-Paramedic Clinical Experience II	3
OEEM 240	EMT-Paramedic Field Experience I	3
OEEM 241	EMT-Paramedic Field Experience II	3
OEEM 242	EMT-Paramedic Field Internship	3
OEEM 243	EMT-Paramedic Preparation for Practice	2
Total Credits		47

Courses must be successfully completed before applying for entrance into the paramedic program.

Some prerequisite courses are required for admission to the Emergency Medical Services program, but are not calculated in the degree credit total. See Overview page for complete Program Prerequisites and Entrance Requirements (p. 245). Specific entrance requirements/ prerequisites vary depending on the qualifications of the applicant and the level of training/licensure sought.

(47 credits)

A Suggested Plan of Study - The following plan is for courses required AFTER admission to the program.

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

The EMT-Paramedic certificate program consists of a minimum of 47 credits while the associate of applied science degree program is a minimum of 69 credits in length. Students may take the general education courses for the associate of applied science degree at any time; however, courses listed in the 'Technical Program Requirements' section (which are common to both the associate degree and certificate programs) must be taken in the prescribed sequence. In order to progress through the program, students must meet specific departmental grading criteria in every course taken. This portion of the curriculum must be completed within a three-year period. Thus, those opting to study on a part-time basis are advised to plan carefully in order to take courses in the correct sequence.

Applications for the Paramedic program may be requested from the EMS office (room DASR 220, telephone 575-527-7645).

To graduate with a certificate or an associate degree, students must earn a C or better in all OEEM courses, and achieve a cumulative grade-point average of at least 2.0.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 47 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course	Title	Credits
Semester 1		
OEEM 201	Human Pathophysiology	3
OEEM 206	Introduction to Advanced Prehospital Care	3
OEEM 207	Introduction to Pharmacology	3
	Credits	9
Semester 2		
OEEM 210	Cardiac Rhythm Interpretation	3
	Credits	3
Semester 3		
OEEM 202	EMT-Paramedic Respiratory Emergencies	3
OEEM 203	EMT-Paramedic Trauma Emergencies	3
OEEM 212	EMT-Paramedic Cardiovascular Emergencies	3
OEEM 213	EMT-Paramedic: Medical Emergencies I	3
OEEM 214	EMT–Paramedic: Medical Environmental Emergencies II	3
OEEM 216	EMT-Paramedic: Reproductive and Childhood Emergencies	3
	Credits	18
Semester 4		
OEEM 230	EMT-Paramedic Clinical Experience I	3
OEEM 231	EMT-Paramedic Clinical Experience II	3
OEEM 240	EMT-Paramedic Field Experience I	3
OEEM 241	EMT-Paramedic Field Experience II	3
	Credits	12

Semester 5		
OEEM 242	EMT-Paramedic Field Internship	3
OEEM 243	EMT-Paramedic Preparation for Practice	2
	Credits	Ę
	Total Credits	47

First Responder Prehospital - Certificate of Achievement

Doña Ana Community College 2020-21 Catalog

(4 credits)

This program provides instruction and laboratory experiences to prepare students to assist in workplace medical and trauma emergencies, in non-transport situations or industrial settings. Some fire and law enforcement require First Responder certification as minimum requirement for employment.

To graduate with a certificate or an associate degree, students must earn a C or better in all OEEM courses, and achieve a cumulative grade-point average of at least 2.0.

Prefix	Title	Credits
Technical Require	ements	
OEEM 101	CPR for the Health Care Professional	1
OEEM 115	First Responder Prehospital Professional	3
Total Credits		4

See Overview page for complete <u>Program Prerequisites and Entrance</u> <u>Requirements</u> (p. 245).

(4 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must earn a final grade of C or better in all OEEM courses and achieve a cumulative grade-point average of at least 2.0.

Course	Title	Credits
Semester 1		
OEEM 101	CPR for the Health Care Professional	1
OEEM 115	First Responder Prehospital Professional	3
-	Credits	4
	Total Credits	4

Environmental and Energy Technologies

Associate of Applied Science Degree

· Environmental and Energy Technologies

Certificates of Completion

- · Basic Solar
- Solar Energy Technology
- · Energy Conservation
- · Energy Evaluation

The Environmental and Energy Technologies Program provides students with a strong foundation in Solar Technology or Energy Technology along with relevant theory and concepts necessary to become successful in these fields. Within each technology emphasis, certificates are designed to be "stackable" and transferable into the associate of applied science degree allowing students to tailor their studies to their own interest and career goals.

This program is designed to provide students with a well-rounded curriculum that encompasses both lecture and hands-on laboratory exercises. Some of the certificates and the degree may assist students in preparation for nationally recognized credentials within those disciplines.

Whether taking classes or working on a job site, students enrolled in this program will be required to perform the same job duties and be able to meet the same physical requirements that they will as graduates in the field. Depending where they find employment, graduates may be required to lift up to 50 pounds from the ground, work safely around hazardous chemicals using appropriate safety equipment, ascend and descend stairs and ladders to reach equipment, work safely around heavy equipment and electricity, work safely and effectively on uneven surfaces, and stand for long periods of time on concrete floors.

Environmental and Energy Technologies - Associate of Applied Science (p. 255)

Basic Solar - Certificate of Completion (p. 256)

Energy Conservation - Certificate of Completion (p. 257)

Energy Evaluation - Certificate of Completion (p. 258)

Solar Energy Technology - Certificate of Completion (p. 259)

TCEN 101. Energy for the Next Generation 3 Credits (2+2P)

This course will survey a broad range of sources of energy, types of energy, energy storage, and the forms of energy. Students will be exposed to theory in the classroom, laboratory exercises, and field trips to provide them with a solid foundation for all subsequent energy related environmental courses. Crosslisted with: OETS 101.

Prerequisite(s)/Corequisite(s): OETS 118 or MATH 1215. Restricted to: Community Colleges only.

TCEN 105. Building Analyst I 3 Credits (2+2P)

This course is designed to provide the foundational knowledge and expertise necessary for the energy auditor and home performance contractor. Crosslisted with: OETS 105. Restricted to: Community Colleges only.

TCEN 106. Building Analyst II 3 Credits (2+2P)

Designed to prepare the student for the BPI Building Analyst Certification. This course will walk the student through the hands-on process of conducting visual building inspections, diagnostic testing, identifying improvement opportunities, documenting a home's performance and preparing a scope of work. Crosslisted with: OETS106.

Prerequisite(s)/Corequisite(s): TCEN 105 or OETS 105. Restricted to: Community Colleges only.

TCEN 110. Photovoltaic Application 4 Credits (3+2P)

This course will provide an introduction to Photovoltaic (PV) installation. The course will provide instruction on site selection, prep, installation, and maintenance for photovoltaic applications. Students that complete the course and have the opportunity to take the entry level exam with the North American Board of Certified Energy Practitioners (NABCEP) en route to becoming Certified Installers. Crosslisted with: OETS110.

Prerequisite(s)/Corequisite(s): TCEN 101 or OETS 101. Restricted to: Community Colleges only.

TCEN 111. Basic Electrical Principles I, DC Circuits 4 Credits (3+2P)

Course begins with the basics of electricity and DC circuits. Includes categorization of material properties within conductors, semiconductors, and insulators. Gradual progression tackles more complex topics like DC circuit analysis of series and parallel circuits, including Kirchhoff's laws, Thevenin's & Norton's theorems, and superposition. Finally DC combination circuits, magnetism and electromagnetism, generators and motors are covered. Emphasis on safety throughout. May be repeated up to 4 credits.

Prerequisite(s)/Corequisite(s): OETS 104 or MATH 1215. Restricted to Community Colleges campuses only.

TCEN 112. PV Power Generation Design Fundamentals 3 Credits (2+2P)

A study of photo voltaic design basics, photo voltaic (PV) Cells, modules, and system components; electrical circuits; grid-tied/grid-interactive PV system design and sizing for use on homes; solar electric products and applications; and understanding energy conversion from sunlight to electricity, and working with solar conversion equipment. May be repeated up to 3 credits.

Prerequisite(s)/Corequisite(s): TCEN 111 and (OETS 104 or MATH 1215). Restricted to Community Colleges campuses only.

TCEN 113. OSHA 10 Hour Construction Hazard Identifications 1 Credit

Intended for entry-level participants to provide instruction on a variety of construction safety and health standards. Topics include Introduction to OSHA, Electrical, Ladder, Excavation, Scaffold, and Forklift Hazards, Fall Protection, Materials Handling, Personnel Protective Equipment and Confined Space Entry Hazards. Meets OSHA 10-Hour Requirements.

TCEN 115. Wind Power Generation Design Fundamentals 3 Credits (2+2P)

Course covers wind turbine module descriptions and functions and wind system installation, operation, and troubleshooting. Additional topics include wind energy harvesting and the conversion process from the generator system to electricity. May be repeated up to 3 credits.

Prerequisite(s)/Corequisite(s): TCEN 111 and (OETS 104 or MATH 1215). Restricted to Community Colleges campuses only.

TCEN 121. Basic Electrical Principles II, AC Circuits 4 Credits (3+2P)

Course begins with an overview of the primary components of AC circuits, such as resistors, inductors, rectifiers, transformers and capacitors, and then gradually introduces new, more complicated topics like applying AC principles in power generation and generators, motors, parallel and combination circuits, troubleshooting and evaluation of circuit conditions. May be repeated up to 4 credits.

Prerequisite(s)/Corequisite(s): TCEN 111 and (OETS 104 or MATH 1215). Restricted to Community Colleges campuses only.

TCEN 156. Building Envelope 3 Credits (2+2P)

Designed to prepare the student for the BPI Building Envelope Certification. This course will provide the principles behind building performance testing and the purpose of completing a comprehensive energy audit. Through lecture and subsequent field training, the student will learn how to use building diagnostics to develop a prescriptive plan for enhancing comfort, health & safety, building durability, and energy savings. The student will learn how to outline the follow-up process required after completion of the retrofit. Crosslisted with: OETS156. Restricted to: Community Colleges only.

Prerequisite(s): TCEN 106 or OETS 106.

TCEN 205. NEC for Alternative Energy 4 Credits (2+4P)

This hands-on course will cover the National Electrical Code specifics concerning photovoltaic installation. Also code compliant wiring of basic electrical systems will be covered. Existing installations will be visited and studied. Restricted to: Community Colleges only.

Prerequisite(s): TCEN 101 and ELT 105.

TCEN 220. Cooperative Experience

1-3 Credits (1-3)

Supervised cooperative work program. Student is employed in an approved occupation and supervised and rated by the employer and instructor. May be repeated up to 6 credits. Consent of Instructor required.

Prerequisite(s)/Corequisite(s): MAT 235. Prerequisite(s): TCEN 180. Restricted to: TCEN majors. Graded: S/U Grading (S/U, Audit). Restricted to: Community Colleges only.

TCEN 221. Roofing Materials and Methods 3 Credits (2+2P)

Covers application techniques and estimation of asphalt and wood roofing products and accesories including gutters and flashing. Presents roof penetration, roof loading issues, and energy system installation requirements for mounting photo voltaic or solar thermal systems.

Prerequisite(s): TCEN 112.

TCEN 222. Photo Voltaic Grid Tie Installation 4 Credits (3+2P)

This is a more advanced course culminating in a PV system-to-grid connection. This course includes gathering site specific data, design, wire type and sizing specific to project, installation of all solar modules and balance of system (BOS)components, and grounding and bonding of system components, all in accordance with the latest NEC. Upon project design approval a system will be commissioned for the grid. Decommissioning will commence after measurements and troubleshooting as directed by the instructor. May be repeated up to 4 credits.

Prerequisite(s)/Corequisite(s): TCEN 121 and TCEN 223. Prerequisite(s): TCEN 111 and TCEN 112. Restricted to Community Colleges campuses only.

TCEN 223. Photo Voltaic National Electrical Code Principles 2 Credits (2+1P)

Focuses on all sections of the National Electrical Code and local code requirements applicable to photo voltaic electrical installation. A partial list of areas covered is chapters one through four and section 690, 'Solar Photovoltaic Systems' of the National Electrical Code.

Prerequisite(s): TCEN 112.

Prerequisite(s)/Corequisite(s): TCEN 222.

TCEN 224. Field Experience

1-3 Credits (1-3)

Student will collaborate with instructor in proposing, defining, implementing, and analyzing outcomes of a project in the Environmental and Energy fields of study. May be repeated up to 6 credits. Consent of Instructor required. Restricted to: TCEN majors. Restricted to: Community Colleges only.

TCEN 241. Solar Thermal SHW Principles/Installation and Maintenance 3 Credits (2+2P)

Course presents the theory, installation, operation, and maintenance of solar hot water (SHW) systems. Topics include the types of systems to choose, the costs associated with SHW installation and operation, system sizing requirements, batteries and battery chemistry. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): OETS 104 or MATH 1215.

TCEN 246. Building Weatherization & Auditor Fundamentals 3 Credits (3)

Course provides information on how to locate air leaks and identify heat losses or gains through specific testing. Students will learn how to inspect and evaluate building envelopes, mechanical systems, and ventilation systems to determine the safety and energy consumption for each system. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): TCEN 113 and OETS 104.

Corequisite(s): TCEN 221.

TCEN 251. Advanced Photo Voltaic On/Off Grid Installation 3 Credits (2+2P)

Photo Voltaic advanced topics to include panel racking and installation, battery storage, charge controllers, mechanical integration of arrays on buildings, and key elements involved in choosing a mounting system. May be repeated up to 3 credits.

Prerequisite(s)/Corequisite(s): TCEN 222. Restricted to Community Colleges campuses only.

TCEN 252. NABCEP Entry-Level Exam Review 2 Credits (2)

Course presents knowledge, key terms, and concepts of photovoltaic systems and solar hot water systems as related to the NABCEP Entry-level exam. This exam is for those wanting to enter the workforce in either solar thermal or solar PV. Scheduling and taking the exam is the responsibility of the student. Consent of Instructor required. Restricted to Community Colleges campuses

Prerequisite(s): TCEN 222.

TCEN 253. Renewable Energy System Troubleshooting and Maintenance 3 Credits (2+2P)

Covers wind, solar and solar thermal system troubleshooting and maintenance topics to include equipment, electrical, and installation problem areas. May be repeated up to 3 credits.

Prerequisite(s)/Corequisite(s): TCEN 251. Prerequisite(s): TCEN 222. Restricted to Community Colleges campuses only.

TCEN 254. Renewable Energy Internship 2 Credits (2)

2 Credits (2)
Student will receive industry-related rer

Student will receive industry-related renewable energy experiences at an approved industry location. Typical areas of hands-on practices will be installing solar PV, solar hot-water systems, or wind energy systems. May be repeated up to 6 credits. Consent of Instructor required. Restricted to Community Colleges campuses only.

Prerequisite(s): TCEN 112 and 113 and 222.

Name: Chipper Moore, Department Chair

Office Location: DADM 200E

Phone: (575) 527-7592

Website: https://dacc.nmsu.edu/tcen/

Environmental and Energy Technologies - Associate of Applied Science

Doña Ana Community College 2020-21 Catalog

(67-68 credits)

NOTE: Students must earn a final grade of C- or better in all required TCEN courses/Technical Requirements/Electives and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 67-68 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

to take the necessary English and Mathematics coursework.				
Prefix	Title	Credits		
General Education				
Select one course from a 12-14 credits ^{1, 2}	four of the following six content areas for a total of	12-14		
• .	This degree requires courses from Areas I, II, III and IV; students do not need to take additional courses to complete the General Education requirements.			
Area I: Communicat	ions			
ENGL 1110G	Composition I ³			
Area II: Mathematic	s			
MATH 1220G	College Algebra ³			
Area III: Laboratory	Sciences			
CHEM 1120G	Introduction to Chemistry Lecture and Laboratory (non majors) ³			
or CHEM 1215G	General Chemistry I Lecture and Laboratory for STEM Majors	Л		
Area IV: Social/Reha	avioral Sciences			

Majors Area IV: Social/Behavioral Sciences ECON 1110G Survey of Economics ³ General Education Elective ENGL 2210G Professional & Technical Communication ³ COMM 1115G Introduction to Communication ³ or COMM 1130G Public Speaking

Core Requirements

PHYS 1230G	Algebra-Based Physics I	4
& PHYS 1230L	and Algebra-Based Physics I Lab ³	
Related Requirements		
OETS 102	Career Readiness Certification Preparation	1

U	L13 102	Career neadiness Certification Freparation	•
S	elect 3 credits from th	ne following:	3
	BCIS 1110	Introduction to Information Systems ³	
	OECS 105	Introduction to Information Technology	
	OECS 215	Spreadsheet Applications	

Major Requirements

major riequirement	•	
Technical Requireme	nts	
BCT 101	Introduction to Construction I	2
BCT 102	Introduction to Construction II	2
BCT 217	Building and the Environment	3
or ARCH 1112	Global Issues and Sustainability	
DRFT 151	Construction Principles and Print Reading	3-4
or BCT 110	Blueprint Reading for Building Trades	
ELT 105	Basic Electricity and Electronics	3
TCEN 101	Energy for the Next Generation	3
TCEN 105	Building Analyst I	3
TCEN 106	Building Analyst II	3
TCEN 110	Photovoltaic Application	4
TCEN 156	Building Envelope	3
TCEN 205	NEC for Alternative Energy	4
Select 6 credits from	n the following:	6
DRFT 109	Computer Drafting Fundamentals	
DRFT 130	General Building Codes	
BCT 103	Introduction to Construction Laboratory	
Electives, to bring th	ne total credits to 67	6
Total Credits		67-68

- Each course selected must be from a different area and students cannot take multiple courses in the same area.
- See the <u>General Education</u> (p. 52) section of the catalog for a full list of courses.
- Courses are identical to those offered at New Mexico State University Las Cruces (main) Campus. The remaining courses are applicable toward the bachelor of applied studies degree offered by the NMSU College of Extended Learning.

(67-68 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must receive a final grade of C- or better in all required TCEN courses/Technical Requirements/Electives and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 67 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course	Title	Credits
Semester 1		
FALL		
Area IV: Social/Behavioral Sciences		
ECON 1110G	Survey of Economics	
TCEN 101	Energy for the Next Generation	3
TCEN 105	Building Analyst I	3

TCEN 106	Building Analyst II	3
Elective		3
	Credits	15
Semester 2		
SPRING	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.4
DRFT 151 or BCT 110	Construction Principles and Print Reading or Blueprint Reading for Building Trades	3-4
ELT 105	Basic Electricity and Electronics	3
TCEN 110	Photovoltaic Application	4
TCEN 156	Building Envelope	3
TCEN 205	NEC for Alternative Energy	4
	Credits	17-18
Semester 3		
SUMMER		
Area II: Mathematics		3
MATH 1220G	College Algebra	
	Credits	3
Semester 4		
FALL		
Area I: Communication	s - English Composition Level 1	4
ENGL 1110G	Composition I	
Area III: Laboratory Sci	ences	4
PHYS 1230G	Algebra-Based Physics I	
& PHYS 1230L	and Algebra-Based Physics I Lab	
BCIS 1110	Introduction to Information Systems	3
or OECS 105	or Introduction to Information Technology	
or OECS 215	or Spreadsheet Applications	
OETS 102	Career Readiness Certification Preparation	1
Elective		3
	Credits	15
Semester 5		
SPRING		
Area III: Laboratory Sci		4
CHEM 1120G	Introduction to Chemistry Lecture and	
or CHEM 1215G	Laboratory (non majors) or General Chemistry I Lecture and	
	Laboratory for STEM Majors	
General Education Elec	ctive - Area I: Communications	3
ENGL 2210G	Professional & Technical Communication	
or COMM 1115G	or Introduction to Communication	
or COMM 1130G	' '	
BCT 101	Introduction to Construction I	2
BCT 102	Introduction to Construction II	2
BCT 217 or ARCH 1112	Building and the Environment or Global Issues and Sustainability	3
Elective		3
	Credits	17
	Total Credits	67-68

Basic Solar - Certificate of Completion

Doña Ana Community College 2020-21 Catalog

(18 credits)

NOTE: Students must earn a final grade of C- or better in all required TCEN courses/Technical Requirements and achieve a cumulative gradepoint average of at least 2.0.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 18 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
Core Requirements		
MATH 1215	Intermediate Algebra ¹	3
or OETS 118	Mathematics for Technicians	
OETS 102	Career Readiness Certification Preparation	1
TCEN 101	Energy for the Next Generation	3
Select 3 credits from t	he following:	3
BCIS 1110	Introduction to Information Systems ¹	
OECS 105	Introduction to Information Technology	
OECS 215	Spreadsheet Applications	
Related and Technical	Requirements	
BCT 101	Introduction to Construction I	2
BCT 102	Introduction to Construction II	2
TCEN 110	Photovoltaic Application	4
Total Credits		18

Courses are identical to those offered at New Mexico State University Las Cruces (main) Campus.

(18 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must earn a final grade of C- or better in all required TCEN courses/Technical Requirements and achieve a cumulative gradepoint average of at least 2.0.

Students must complete all University certificate requirements to total at least 18 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course	Title	Credits
Semester 1		
BCIS 1110 or OECS 105 or OECS 215	Introduction to Information Systems or Introduction to Information Technology or Spreadsheet Applications	3
MATH 1215 or OETS 118	Intermediate Algebra or Mathematics for Technicians	3
OETS 102	Career Readiness Certification Preparation	1

TCEN 101	Energy for the Next Generation	3
	Credits	10
Semester 2		
BCT 101	Introduction to Construction I	2
BCT 102	Introduction to Construction II	2
TCEN 110	Photovoltaic Application	4
	Credits	8
	Total Credits	18

Energy Conservation - Certificate of Completion

Doña Ana Community College 2020-21 Catalog

(20 credits)

NOTE: Students must earn a final grade of C- or better in all required TCEN courses/Core Requirements/Related and Technical Requirements and achieve a cumulative grade-point average of at least 2.0.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 20 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
Core Requirements		
MATH 1215	Intermediate Algebra ¹	3
or OETS 118	Mathematics for Technicians	
OETS 102	Career Readiness Certification Preparation	1
TCEN 101	Energy for the Next Generation	3
Select 3 credits from	n the following:	3
BCIS 1110	Introduction to Information Systems ¹	
OECS 105	Introduction to Information Technology	
OECS 215	Spreadsheet Applications	
Related and Technic	cal Requirements	
BCT 101	Introduction to Construction I	2
BCT 102	Introduction to Construction II	2
TCEN 105	Building Analyst I	3
TCEN 106	Building Analyst II	3
Total Credits		20

Courses are identical to those offered at New Mexico State University Las Cruces (main) Campus.

(20 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must earn a final grade of C- or better in all required TCEN courses/Core Requirements/Related and Technical

Requirements and achieve a cumulative grade-point average of at least 2.0.

Students must complete all University certificate requirements to total at least 20 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course	Title	Credits
Semester 1		
BCIS 1110 or OECS 105 or OECS 215	Introduction to Information Systems or Introduction to Information Technology or Spreadsheet Applications	3
MATH 1215 or OETS 118	Intermediate Algebra or Mathematics for Technicians	3
TCEN 105	Building Analyst I	3
TCEN 106	Building Analyst II	3
	Credits	12
Semester 2		
BCT 101	Introduction to Construction I	2
BCT 102	Introduction to Construction II	2
OETS 102	Career Readiness Certification Preparation	1
TCEN 101	Energy for the Next Generation	3
	Credits	8
	Total Credits	20

Energy Evaluation - Certificate of Completion

Doña Ana Community College 2020-21 Catalog

Important information about the educational debt, earnings, and completion rates of students who attend this program can be found on the following https://dacc.nmsu.edu/qainfulemployment/.

(30 credits)

NOTE: Students must earn a final grade of C- or better in all required TCEN courses/Core Requirements/Related and Technical Requirements and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 30 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
Core Requirements		
MATH 1215	Intermediate Algebra ¹	3
or OETS 118	Mathematics for Technicians	
OETS 102	Career Readiness Certification Preparation	1
TCEN 101	Energy for the Next Generation	3
Select 3 credits from	3	
BCIS 1110	Introduction to Information Systems ¹	
OECS 105	Introduction to Information Technology	
OECS 215	Spreadsheet Applications	

Related and Technical Requirements

ENGL 1110G	Composition I 1	4
or OETS 103	Technical Career Skills	
BCT 101	Introduction to Construction I	2
BCT 102	Introduction to Construction II	2
DRFT 130	General Building Codes	3
TCEN 105	Building Analyst I	3
TCEN 106	Building Analyst II	3
TCEN 156	Building Envelope	3
Total Credits		30

Courses are identical to those offered at New Mexico State University Las Cruces (main) Campus.

Important information about the educational debt, earnings, and completion rates of students who attend this program can be found on the following https://dacc.nmsu.edu/gainfulemployment/.

(30 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must earn a final grade of C- or better in all required TCEN courses/Core Requirements/Related and Technical Requirements and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University certificate requirements, which include: General Education requirements and elective credits to total at least 30 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course	Title	Credits
Semester 1		
ENGL 1110G or OETS 103	Composition I ¹ or Technical Career Skills	4
DRFT 130	General Building Codes	3
MATH 1215 or OETS 118	Intermediate Algebra or Mathematics for Technicians	3
TCEN 105	Building Analyst I	3
TCEN 106	Building Analyst II	3
	Credits	16
Semester 2		
BCIS 1110 or OECS 105 or OECS 215	Introduction to Information Systems or Introduction to Information Technology or Spreadsheet Applications	3
BCT 101	Introduction to Construction I	2
BCT 102	Introduction to Construction II	2
OETS 102	Career Readiness Certification Preparation	1
TCEN 101	Energy for the Next Generation	3
TCEN 156	Building Envelope	3
	Credits	14
	Total Credits	30

While OETS 103 Technical Career Skills meets program requirements, it does not meet the NM General Education Area I: Communications - English Composition Level I requirements.

Solar Energy Technology - Certificate of Completion

Doña Ana Community College 2020-21 Catalog

(26 credits)

NOTE: Students must earn a final grade of C- or better in all required TCEN courses/Core Requirements/Core and Technical Requirements and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 26 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
Core Requirements		
MATH 1215	Intermediate Algebra ¹	3
or OETS 118	Mathematics for Technicians	
OETS 102	Career Readiness Certification Preparation	1
TCEN 101	Energy for the Next Generation	3
Select 3 credits from	n the following:	3
BCIS 1110	Introduction to Information Systems ¹	
OECS 105	Introduction to Information Technology	
OECS 215	Spreadsheet Applications	
Related and Technic	cal Requirements	
ENGL 1110G	Composition I ¹	4
or OETS 103	Technical Career Skills	
BCT 101	Introduction to Construction I	2
BCT 102	Introduction to Construction II	2
TCEN 110	Photovoltaic Application	4
TCEN 205	NEC for Alternative Energy	4
Total Credits		26

Courses are identical to those offered at New Mexico State University Las Cruces (main) Campus.

(26 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must earn a final grade of C- or better in all required TCEN courses/Core Requirements/Core and Technical Requirements and achieve a cumulative grade-point average of at least

2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University certificate requirements, which include: General Education requirements and elective credits to total at least 26 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course	Title	Credits
Semester 1		
BCIS 1110 or OECS 105 or OECS 215	Introduction to Information Systems or Introduction to Information Technology or Spreadsheet Applications	3
ENGL 1110G or OETS 103	Composition I ¹ or Technical Career Skills	4
MATH 1215 or OETS 118	Intermediate Algebra or Mathematics for Technicians	3
TCEN 101	Energy for the Next Generation	3
	Credits	13
Semester 2		
BCT 101	Introduction to Construction I	2
BCT 102	Introduction to Construction II	2
OETS 102	Career Readiness Certification Preparation	1
TCEN 110	Photovoltaic Application	4
TCEN 205	NEC for Alternative Energy	4
	Credits	13
	Total Credits	26

While OETS 103 Technical Career Skills meets program requirements, it does not meet the NM General Education Area I: Communications - English Composition Level 1 requirements.

Fire Science Technology

Associate of Applied Science Degree

Certificate of Completion: Basic Firefighter

(575) 528-7321

Every year, fire and other emergencies take thousands of lives and destroy property worth billions of dollars. Firefighters help protect the public against these dangers. They are frequently the first emergency personnel at the scene of a traffic accident or medical emergency and may be called upon to put out a fire, treat injuries, or perform other vital functions.

Employment of firefighters is expected to grow about as fast as the average for all occupations. According to the United States Fire Administration, nearly 70 percent of fire companies are staffed by volunteer firefighters. Most job growth will occur as volunteer fire-fighting positions are converted to paid positions. In addition to job growth, openings are expected to result from the need to replace firefighters who retire, stop working for other reasons, or transfer to other emergency service entities.

Doña Ana Community College provides training for firefighting personnel through its Fire Science Technology program, which is accredited by the International Fire Service Accreditation Congress (IFSAC). Students will receive training in the basic concepts of firefighting and will participate in live evolution that will give them real experience in the firefighting career field. This program provides classroom instruction leading to

an associate of applied science degree in fire science technology or a certificate of completion in firefighting. It is suited to those who are new to the field, as well as incumbent firefighters.

- Career and volunteer firefighters and NMSU student firefighters will improve their job performance and prepare for higher level positions in the fire protection fields.
- Students who wish to enter the field of fire protection will benefit from the basic foundations provided in the technical courses as well as general education courses.

NOTE: An articulation agreement with the N.M. Firefighters Training Academy makes it possible to receive college credit for experience and IFSAC certification. All courses in this program may be applied toward a Bachelor of Applied Studies or Bachelor of Individualized Studies degree at NMSU.

NOTE: Students wishing to enter the fire service will benefit from the educational background provided and may receive certifications in various fire-related areas through the New Mexico Firefighters Training Academy in Socorro, N.M., and the IFSAC.

Program Accreditation

The Fire Science Program is accredited by the International Fire Service Accreditation Congress (https://ifsac.org/).

Medical Clearances and Background Checks

Several courses in the program may require the student to submit a medical clearance physical, mask fit test, and a background check. See a program advisor for details.

NOTE: A criminal history may prohibit students from being hired or certified by agencies. Students are encouraged to check with the prospective agency and identify that agency's specific requirements prior to enrolling in this program.

Physical Abilities

This program requires that the student be able to:

- lift, carry and balance up to 125 pounds (250 pounds with assistance)
- assume a variety of postural positions and be capable of physical maneuvers ranging from crawling, kneeling, squatting, twisting, turning, and bending, to climbing stairs and ladders
- withstand varied environmental conditions such as extreme heat, cold, and moisture

Technology Competencies

In an effort to assist students with adequate preparation for their coursework at DACC, technology competencies have been identified and established. These competencies are in effect for all courses taken in the Fire Science Technology program. Students must possess the following minimum competencies. Additional competencies may be required for particular courses/programs:

- Access course and program material on the Web using CANVAS and an applicable web browser
- · Correspond with DACC students and faculty using e-mail and the Web
- · Read/print e-mail and attachments/files from students and faculty
- Complete, send, and receive assignments using e-mail and attachments/files

- Use the DACC Library e-books, e-journals, databases, or credible World Wide Web resources for research and completion of course assignments
- Prepare and conduct presentations in the classroom using presentation equipment as required.
- Use the appropriate software for a given course (DACC uses as standards Microsoft products, including MS Word, MS Project, MS Excel, and MS PowerPoint)
- Use an appropriate anti-virus application to ensure the files transmitted and received are virus free
- Use recommended plagiarism review software to ensure work is not plagiarized

Fire Science Technology - Associate of Applied Science (p. 262)

Basic Firefighter - Certificate of Completion (p. 263)

FIRE 101. Firefighter I 8 Credits (6+6P)

This course will train the student to the Firefighter I level as outlined in NFPA 1001, Standard for Firefighter Professional Qualifications. Firefighter I certification issued through the New Mexico Firefighter's Training Academy upon successful completion (IFSAC accredited). May be repeated up to 8 credits. Consent of Instructor required.

Prerequisite(s)/Corequisite(s): OEEM 103 and FIRE 115. Restricted to Community Colleges campuses only.

FIRE 102. Fire Fighter I and II 12 Credits (12)

This course will train the student as outlined in NFPA 1001, Fire Fighter Professional Qualifications. Firefighter I & II Certification issued through the New Mexico Firefighter's Training Academy (NMFTA) upon successful completion [International Fire Service Accreditation Congress (IFSAC) & Pro Board accredited]. Consent of Instructor required.

Prerequisite(s)/Corequisite(s): FIRE 115, FIRE 252, OEEM 103. Restricted to Dona Ana campus only.

FIRE 104. Firefighter II 8 Credits (6+6P)

This course will train the student to the Firefighter II level as outlined in NFPA 1001, Standard for Firefighter Professional Qualifications. Firefighter II certification issued through the New Mexico Firefighter's Training Academy upon successful completion (IFSAC accredited). May be repeated up to 8 credits. Consent of Instructor required.

Prerequisite(s)/Corequisite(s): FIRE 252. Prerequisite(s): FIRE 101. Restricted to Community Colleges campuses only.

FIRE 112. Principles of Emergency Services 3 Credits (3)

This course provides an overview to fire protection and emergency services including career opportunities in fire protection and related fields. The organization and function of public and private fire protection services is studied including how fire departments fit as part of local government. An overview of laws and regulations affecting the fire service is explored along with specific fire protection functions and responsibilities including basic fire chemistry and physics, introduction to fire strategy and tactics and life safety initiatives. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

FIRE 114. Fire Behavior and Combustion 3 Credits (3)

This course explores the theories and fundamentals of how and why fires start, spread, and are controlled. Restricted to: Community colleges only.

FIRE 115. Hazardous Materials Awareness and Operations 3 Credits (3)

This course will train the student to the Hazardous Materials Awareness and Operations level as outlined in NFPA 472, Standard for Competence of Responders to Hazardous Materials/Weapons of Mass Destruction Incidents and OSHA 29 CFR 1910.120. Hazardous Materials Awareness and Operations certification issued through the New Mexico Firefighter's Training Academy upon successful completion (IFSAC accredited). May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

FIRE 120. Fire Protection Hydraulics and Water Supply 3 Credits (3)

This course will train students on skill requirements for becoming a safe and effective fire apparatus driver/operator. The focus will be on pump operation, construction, testing, and mathematical calculation required for effective pump operation and fire control. Responsibilities of the driver/operator will be taught and assessed consistent with applicable NFPA standards and the New Mexico Firefighters' Training Academy (NMFTA) guidelines. Students who meet all course requirements will be eligible for International Fire Service Accreditation Congress (IFSAC) certification through the NMFTA. Consent of Instructor required. Restricted to Community Colleges campuses

FIRE 126. Fire Prevention 3 Credits (3)

Prerequisite(s)/Corequisite(s): FIRE 128.

This course will educate students about the principles and techniques of fire prevention and life-safety inspection and code compliance in accordance to NFPA 1031, Standard for Professional Qualifications for Fire Inspector and Plan Examiner, Level I. Students who meet all course requirements will be eligible for International Fire Service Accreditation Congress (IFSAC) certification through the New Mexico Firefighters' Training Academy (NMFTA). Restricted to Community Colleges campuses only.

FIRE 128. Apparatus and Equipment 2 Credits (2)

The course will train students on attitude and skill requirements for becoming a safe and effective fire apparatus driver/operator. The focus will be on apparatus inspection, operation, maintenance, and specification. Responsibilities of the driver/operator will be taught and assessed consistent with applicable NFPA standards and the New Mexico Firefighters' Training Academy (NMFTA) guidelines. Students pursuing certification must posses a current and valid New Mexico driver's license. Students who meet all course requirements will be eligible for International Fire Service Accreditation Congress (IFSAC) certification through the NMFTA. Restricted to Community Colleges campuses only.

FIRE 130. Principles of Fire and Emergency Services Safety and Survival 3 Credits (3)

This course introduces the basic principles and history related to the national firefighter life safety initiatives, focusing on the need for cultural and behavior change throughout the emergency services. Consent of instructor required. Restricted to: Community colleges only.

FIRE 200. Special Topics 1-12 Credits (1-12)

Specific subjects to be announced in the Schedule of Classes. Course may be repeated for credit as topics change. May be repeated up to 12 credits. Consent of Instructor required. Restricted to Community Colleges campuses only.

FIRE 201. Independent Study

1-3 Credits

Research on an approved topic to meet graduation requirements. Meets or exceeds NFPA standards. May be repeated for total of 9 credits. **Prerequisite:** consent of instructor.

FIRE 202. Wildland Fire Control

1-3 Credits

Focuses on factors affecting wildland fire control and prevention, fire behavior, control techniques, command structure and other operations including Standards for Survival I-100, S-130 and S-190 Meets or exceeds NWCG Training Curriculum and NFPA 1051 standards. Restricted to: Community Colleges Only.

FIRE 203. Fire and Emergency Services Administration 3 Credits (3)

This course will provide students entry-level training in company operations and administration at the first-line supervisory level. The student will learn how to effectively manage human resources and community/public relations. Students will learn about fire department organization and administration; including budgets, reports, and planning. Students will learn the process involved in fire inspection, investigation, public education, emergency service delivery, and safety, per NFPA Standard 1021, Fire Officer Professional Qualifications. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

FIRE 210. Building Construction for Fire Protection 3 Credits (3)

This course provides the components of building construction related to firefighter and life safety. The elements of construction and design of structures are shown to be key factors when inspecting buildings, preplanning fire operations, and operating at emergencies. Restricted to: Community colleges only.

FIRE 220. Cooperative Experience I

1-3 Credits

Supervised cooperative work program. Student is employed in an approved occupation and rated by the employer and instructor. May be repeated for a maximum of 6 credits. Graded S/U.

Prerequisite: consent of instructor.

FIRE 221. Cooperative Experience II

3 Credits (3)

Apply advanced firefighting knowledge and skills while working with fire protection agencies. Meets or exceeds NFPA standards. Consent of instructor required. Graded: S/U. Restricted to: Community Colleges only. **Prerequisite(s):** FIRE 220.

FIRE 223. Fire Investigations I 3 Credits (3)

This course meets the requirements set forth in NFPA 1033 Professional Qualifications for Fire Investigator. This course will give a comprehensive understanding of the principles of fire investigation, scene examination, documentation, evidence collection/preservation, interview techniques, and post-incident investigations. Student who meet all course requirements are eligible for International Fire Service Accreditation Congress (IFSAC) certification through New Mexico Firefighters' Training Academy (NMFTA). Restricted to Community Colleges campuses only.

FIRE 224. Strategy and Tactics

3 Credits (3)

Provides an in-depth analysis of the principles of fire control through utilization of personnel, equipment and extinguishing agents on the fire ground. Covers the development of systematic action plans for emergency situations. Includes recognizing and prioritizing emergency scene needs and developing related strategies, tactics and contingencies. Educates students on how resources should be deployed to implement those plans. Restricted to Community Colleges campuses only.

FIRE 225. Fire Protection Systems

3 Credits (3)

This course provides information relating to the features and design and operation of fire alarm systems, water-based fire suppression systems, special hazard fire suppression systems, water supply for fire protection and portable fire extinguishers. Restricted to: Community colleges only.

FIRE 230. Fire Service Instructor

3 Credits (3)

Provides the instructor candidate with methods and techniques of instruction including oral communications, preparing lesson plans, writing performance objectives, use of audio and other training aids, and the selection, evaluation and preparation of performance tests. Meets and exceeds NFPA 1041 Level I standards. Restricted to: Community Colleges only.

FIRE 232. Firefighter Internship

3 Credits (3)

Application of knowledge, skills and abilities in a fire service department, as a firefighter intern and integrated member of a fire affiliated agency. Restricted to majors.

Prerequisites: FIRE 101, FIRE 102, FIRE 115, FIRE 202 and EMT-B and consent of instructor.

FIRE 233. Practical Approach to Terrorism

3 Credits (3)

Gives responder an overall safety approach in recognizing and responding to incidents involving terrorism. Presents an overview in types of harm, explosive weapons, chemical weapons, biological weapons and radiological weapons. Restricted to: Community Colleges only. Crosslisted with: LAWE 233

FIRE 252. Vehicle Extrication

2 Credits (1+2P)

This course will train the student to the Vehicle & Machinery Extrication level I as outlined in NFPA 1006, Standard for Technical Rescuer Professional Qualifications. Vehicle & Machinery Extrication certification issued through the New Mexico Firefighter's Training Academy upon successful completion (IFSAC accredited). May be repeated up to 2 credits. Restricted to Community Colleges campuses only.

Name: Alfred Lujan, Fire Science Technology Instructor

Office Location: DASR 220F

Phone: (575) 528-7321

Email: allujan@dacc.nmsu.edu ()

Website: https://dacc.nmsu.edu/fire/

Fire Science Technology - Associate of Applied Science

Doña Ana Community College 2020-21 Catalog

Title

(60 credits)

FIRE/LAWE 233

FIRE-related Electives

NOTE: Students must earn a final grade of C- or better in all required FIRE and FIRE related-elective courses and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 60 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Credits

General Education		
Select one course from 12-14 credits ^{1, 2}	four of the following six content areas for a total of	12-14
	ourses from Areas I, III, IV and V; students do ional courses to complete the General Education	
Area I: Communica	tions	
ENGL 1110G	Composition I ³	
Area III: Laboratory	Sciences	
CHEM 1120G	Introduction to Chemistry Lecture and Laboratory (non majors) ³	
Area IV: Social/Beh	navioral Sciences	
POLS 1120G	American National Government ³	
or POLS 1110G	Introduction to Political Science	
Area V: Humanities		
HIST 1110G	United States History I ³	
or HIST 1120G	United States History II	
General Education Elec	tive	
COMM 1130G	Public Speaking ³	3
or COMM 1115G	Introduction to Communication	
Core Requirements		
Select 3 credits in Mat Education Requiremen	thematics - Area II of the New Mexico General nts. ²	3
Select 3 credits from t	he following:	3
PSYC 1110G	Introduction to Psychology ³	
SOCI 1110G	Introduction to Sociology ³	
or SOCI 2310G	Contemporary Social Problems	
Major Requirements		
Technical Requirements	s	
FIRE 112	Principles of Emergency Services	3
FIRE 114	Fire Behavior and Combustion	3
FIRE 120	Fire Protection Hydraulics and Water Supply	3
FIRE 126	Fire Prevention	3
FIRE 130	Principles of Fire and Emergency Services Safety and Survival	3
FIRE 203	Fire and Emergency Services Administration	3
FIRE 210	Building Construction for Fire Protection	3
FIRE 223	Fire Investigations I	3
FIRE 224	Strategy and Tactics	3
FIRE 225	Fire Protection Systems	3

Practical Approach to Terrorism

	Select 4 credits fro	m the following:	4
	OEEM 120	Emergency Medical Technician Basic	
	OEEM 120 L	Emergency Medical Technician Basic Lab	
	OEEM 121	Emergency Medical Technician Basic Field/ Clinical	
	FIRE 101	Firefighter I	
	FIRE 104	Firefighter II	
	FIRE 102	Fire Fighter I and II	
	FIRE 115	Hazardous Materials Awareness and Operations	
	FIRE 128	Apparatus and Equipment	
	FIRE 230	Fire Service Instructor	
	FIRE 252	Vehicle Extrication	
	Total Credite		60

- Each course selected must be from a different area and students cannot take multiple courses in the same area.
- See the <u>General Education</u> (p. 52) section of the catalog for a full list of courses.
- Courses are identical to those offered at New Mexico State University Las Cruces (main) Campus.

(60 credits)

A Suggested Plan of Study

Calcat 4 aradita from the following:

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must earn a final grade of C- or better in all required FIRE and FIRE related-elective courses and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 60 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course	Title	Credits
Semester 1		
FALL		
Area I: Communication	ns - English Composition Level 1	4
ENGL 1110G	Composition I	
Area IV: Social/Behavi	oral Sciences	3
POLS 1110G or POLS 1120G	Introduction to Political Science or American National Government	
FIRE 112	Principles of Emergency Services	3
FIRE 114	Fire Behavior and Combustion	3
	Credits	13
Semester 2 SPRING		
	any Area II course listed in the NM General ats of the NMSU/DACC Catalog.	3
FIRE 120	Fire Protection Hydraulics and Water Supply	3
FIRE 126	Fire Prevention	3

FIRE 130	Principles of Fire and Emergency Services Safety and Survival	3
	Credits	12
Semester 3		
SUMMER		
Area IV: Social/Behavi	oral Sciences - Choose one from the following:	3
PSYC 1110G	Introduction to Psychology	
SOCI 1110G	Introduction to Sociology	
SOCI 2310G	Contemporary Social Problems	
General Education Ele Communications	ctive - Area I: Communications - Oral	3
COMM 1115G or COMM 11300	Introduction to Communication G or Public Speaking	
	Credits	6
Semester 4 FALL		
Area III: Laboratory Sc	iences	4
CHEM 1120G	Introduction to Chemistry Lecture and Laboratory (non majors)	
Area V: Humanities		3
HIST 1110G or HIST 1120G	United States History I or United States History II	
FIRE 203	Fire and Emergency Services Administration	3
FIRE 210	Building Construction for Fire Protection	3
FIRE 223	Fire Investigations I	3
	Credits	16
Semester 5		
SPRING		
FIRE 224	Strategy and Tactics	3
FIRE 225	Fire Protection Systems	3
FIRE 233 or LAWE 233	Practical Approach to Terrorism or Practical Approach to Terrorism	3
Fire-Related Elective(s	s) - Choose from the following:	4
FIRE 101	Firefighter I	
FIRE 102	Fire Fighter I and II	
FIRE 104	Firefighter II	
FIRE 115	Hazardous Materials Awareness and Operations	
FIRE 128	Apparatus and Equipment	
FIRE 230	Fire Service Instructor	
FIRE 252	Vehicle Extrication	
OEEM 120 & 120 L	Emergency Medical Technician Basic and Emergency Medical Technician Basic Lab	
OEEM 121	Emergency Medical Technician Basic Field/ Clinical	
	Credits	13
	Total Credits	60
		50

Basic Firefighter - Certificate of Completion

Doña Ana Community College 2020-21 Catalog (30 credits)

NOTE: Students must earn a final grade of C- or better in all required Core Requirements and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 30 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
Core Requirements		
FIRE 115	Hazardous Materials Awareness and Operations	3
FIRE 102	Fire Fighter I and II	12
FIRE 252	Vehicle Extrication	2
OEEM 103	Heartsaver First Aid/CPR	1
OEEM 153	Introduction to Anatomy and Physiology for the EMS Provider	3
OEEM 120	Emergency Medical Technician Basic	6
OEEM 120 L	Emergency Medical Technician Basic Lab	2
OEEM 121	Emergency Medical Technician Basic Field/ Clinical	1
Total Credits		30

(30 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must earn a final grade of C- or better in all required Core Requirements and achieve a cumulative grade-point average of at least 2.0.

Students must complete all University certificate requirements to total at least 30 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course Semester 1	Title	Credits
FIRE 102	Fire Fighter I and II	12
FIRE 115	Hazardous Materials Awareness and Operations	3
FIRE 252	Vehicle Extrication	2
OEEM 103	Heartsaver First Aid/CPR	1
	Credits	18
Semester 2		
OEEM 120 & 120 L	Emergency Medical Technician Basic and Emergency Medical Technician Basic Lab	8
OEEM 121	Emergency Medical Technician Basic Field/ Clinical	1
OEEM 153	Introduction to Anatomy and Physiology for the EMS Provider	3
	Credits	12
	Total Credits	30

General Engineering

Associate of Science Degree

The job market for qualified engineering professionals has entered a new age. Regardless of industry trends and forecasts, one thing remains certain—engineers are an essential component to developing new ideas, and furthering the many fields of engineering. From mechanical engineering to environmental engineering, to civil engineering, there is opportunity for graduates to put their professional practice where passion lies.

If a student has thought about the field of engineering or any of its many subfields as a career, an associate degree can be a good starting point to pursue higher education. Within an associate's degree program, students become familiar with the many subfields of engineering, allowing them to identify where their specific professional interests lie when they progress to a four-year institution.

The small classes at DACC result in a student/instructor ratio that allows personal interaction, which strengthens the educational process. This is particularly a great benefit in higher levels of math and science courses. Community colleges have a higher retention rate and success rate. In addition, the cost of attending a community college for the first two years greatly reduces the cost of an engineering degree.

The General Engineering degree is designed to provide students a set of courses that will articulate into the four-year engineering programs at New Mexico State University, the University of New Mexico, and New Mexico Tech as well as the Bachelor of Science in Engineering Technology at New Mexico State University. This program will make available to a far wider range of students the ability to pursue their dreams of becoming engineers. Within the program, they will learn the business aspects of engineering, a foundation of what it takes to be successful in the field and the trends in a growing, energy-conscience market.

Once students have completed the associate's degree, they are well on their way to a bachelor's degree program in their selected field. The individual students must work closely with an Advisor to select the best options for successful transition to the four-year institution of their choice.

For high school students who are interested in a career in engineering, courses in mathematics and science are essential.

General Engineering - Associate of Science (p. 265)

ENGR 100G. Introduction to Engineering 3 Credits (2+3P)

An introduction to the various engineering disciplines, the engineering approach to problem solving, and the design process. Projects emphasize the importance of teamwork, written & oral communication skills, as well as ethical responsibilities. May be repeated up to 3 credits.

Prerequisite(s)/Corequisite(s): MATH 1220G or above.

ENGR 100GH. Introduction to Engineering Honors 3 Credits (2+3P)

An introduction to the various engineering disciplines, the engineering approach to problem solving, and the design process. Projects emphasize the importance of teamwork, written & oral communication skills, as well as ethical responsibilities. May be repeated up to 3 credits. Crosslisted with: ENGR 100.

Prerequisite(s)/Corequisite(s): MATH 1220G or above.

ENGR 110. Introduction to Engineering Design 3 Credits (2+3P)

Sketching and orthographic projection. Covers detail and assembly working drawings, dimensioning, tolerance specification, and design project

ENGR 111. Mathematics for Engineering Applications 3 Credits (3)

An introduction to engineering mathematics and basic programming skills needed to perform elementary data manipulation and analysis. Consent of Instructor required.

Prerequisite(s)/Corequisite(s): MATH 1250G. Prerequisite(s): MATH 1220G.

ENGR 198. Special Topics in Engineering

1-3 Credits

Directed individual study of topics in engineering. Written reports covering work required. May be repeated for a maximum of 6 credits. Restricted to engineering majors. Graded S/U.

Prerequisite: consent of academic dean.

ENGR 233. Engineering Mechanics I

3 Credits (3)

Engineering mechanics using vector methods. Force systems, resultants, equilibrium, distributed forces, area moments, and friction.

Prerequisite(s)/Corequisite(s): PHYS 1310G. Prerequisite(s):

MATH 1521G or MATH 1521H.

ENGR 234. Engineering Mechanics II

3 Credits (3)

Kinetics of particles, kinematics and kinetics rigid bodies, systems of particles, energy and momentum principles, and kinetics of rigid bodies in three dimensions.

Prerequisite(s)/Corequisite(s): MATH 2530G. Prerequisite(s): M E 236, C E 233, or ENGR 233.

Name: Luis Meza, Department Chair

Office Location: DAWD 116A

Phone: (575) 527-7599

Website: https://dacc.nmsu.edu/engr/

General Engineering - Associate of Science

Doña Ana Community College 2020-21 Catalog

(60 credits)

NOTE: Students must earn a final grade of C- or better in all required Technical Requirements and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 60 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix General Education	Title	Credits
Area I: Communication	0	
English Composition -		
ENGL 1110G	Composition I	4
English Composition - I	•	4
ENGL 2210G	Professional & Technical Communication	3
Oral Communication	Professional & reclinical communication	3
COMM 1115G	Introduction to Communication	3
or COMM 1130G		3
	Public Speaking	
Area II: Mathematics		
MATH 1511G	Calculus and Analytic Geometry I	4
	Sciences and Social/Behavioral Sciences	11
ECON 2110G	Macroeconomic Principles	
Select 8 credits fro		
CHEM 1215G	General Chemistry I Lecture and Laboratory for STEM Majors	
CHEM 1225G	General Chemistry II Lecture and Laboratory for STEM Majors	
GEOL 1110G	Physical Geology	
PHYS 1310G	Calculus -Based Physics I	
& PHYS 1310L	and Calculus -Based Physics I Lab	
PHYS 1320G	Calculus -Based Physics II	
& PHYS 1320L	and Calculus -Based Physics II Lab	
Other approved lab	o-science course(s)	
Area V: Humanities		
Select one course from	m the following:	3
ENGL 1410G	Introduction to Literature	
ENGL 2310G	Introduction to Creative Writing	
ENGL 2520G	Film as Literature	
ENGL 2650G	World Literature I	
HIST 1105G	Making History	
HIST 1110G	United States History I	
HIST 1120G	United States History II	
HIST 1130G	World History I	
HIST 1140G	World History II	
HIST 1150G	Western Civilization I	
HIST 1160G	Western Civilization II	
HIST 2245G	Islamic Civilizations to 1800	
HIST 2246G	Islamic Civilizations since 1800	
HIST 2250G	East Asia to 1600	
HIST 2251G	East Asia since 1600	
PHIL 1115G	Introduction to Philosophy	
PHIL 1120G	Logic, Reasoning, & Critical Thinking	
PHIL 1140G	Quest for God	
PHIL 1145G	Philosophy, Law, and Ethics	
PHIL 1155G PHIL 2110G	Philosophy of Music Introduction to Ethics	
PHIL 2230G	Philosophical Thought	
Area VI: Creative and F		_
Select one course from	•	3
ARTH 1115G	Orientation in Art	
ARTS 1145G	Visual Concepts	
ARTH 2110G	History of Art I	
ARTH 2120G	History of Art II	
DANC 1110G	Dance Appreciation	
MUSC 1110G	Music Appreciation: Jazz	

	al Credits		60
Ele	ctives to bring total	credits to 60	5
	Other approved lab-	science courses(s)	
	PHYS 1320G & PHYS 1320L	Calculus -Based Physics II and Calculus -Based Physics II Lab	
	PHYS 1310G & PHYS 1310L	Calculus -Based Physics I and Calculus -Based Physics I Lab	
	GEOL 1110G	Physical Geology	
	CHEM 1225G	General Chemistry II Lecture and Laboratory for STEM Majors	
	CHEM 1215G	General Chemistry I Lecture and Laboratory for STEM Majors	
		credits from the following, the courses selected the ones used for Area III: 1	8
	jor Requirements		
	C E 151	Introduction to Civil Engineering	
	MATH 2530G	Calculus III	
	C E 233	Mechanics-Statics	
Sel	ect at least 6 credits	s from the following:	6
	or DRFT 114	Introduction to Solid Modeling	
CE	/E T/DRFT 109	Computer Drafting Fundamentals	3
EN	GR 100G	Introduction to Engineering	3
Eng	ineering and Related	Courses	
Cor	e Requirements		
MA	TH 1521G	Calculus and Analytic Geometry II	4
Ger	neral Education Elect	ive	
	THEA 1110G	Introduction to Theatre	
	MUSC 1130G	Music Appreciation: Western Music	

Students must complete at least 16 credits of Laboratory Science coursework for this degree.

(60 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must earn a final grade of C- or better in all required Technical Requirements and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 60 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course	Title	Credits
Semester 1		
Area I: Communication	ons - English Composition Level I	4
ENGL 1110G	Composition I	
Area II: Mathematics		4
MATH 1511G	Calculus and Analytic Geometry I	
Area III: Laboratory S 16 credits from differ	ciences - Choose one from the following (total of rent prefixes/areas):	4

CHEM 1215G	General Chemistry I Lecture and Laboratory for STEM Majors	
CHEM 1225G	General Chemistry II Lecture and Laboratory for STEM Majors	
GEOL 1110G	Physical Geology	
PHYS 1310G	Calculus -Based Physics I	
& PHYS 1310L	and Calculus -Based Physics I Lab	
PHYS 1320G & PHYS 1320L	Calculus -Based Physics II and Calculus -Based Physics II Lab	
	d Area III NM General Education course in the	
NMSU/DACC Cat	•	
ENGR 100G	Introduction to Engineering	3
	Credits	15
Semester 2	2-i	4
16 credits from diffe	Sciences - Choose one from the following (total of	4
CHEM 1215G	General Chemistry I Lecture and Laboratory for	
	STEM Majors	
CHEM 1225G	General Chemistry II Lecture and Laboratory for STEM Majors	
GEOL 1110G	Physical Geology	
PHYS 1310G	Calculus -Based Physics I	
& PHYS 1310L	and Calculus -Based Physics I Lab	
PHYS 1320G & PHYS 1320L	Calculus -Based Physics II and Calculus -Based Physics II Lab	
Or other approved NMSU/DACC Cat	d Area III NM General Education course in the alog.	
Area IV: Social/Beha	vioral Sciences	3
ECON 2110G	Macroeconomic Principles	
General Education E	lective - Area II: Mathematics	4
MATH 1521G	Calculus and Analytic Geometry II	
Engineering-Related	Course - Choose one from the following:	3
C E 109	Computer Drafting Fundamentals	
DRFT 109	Computer Drafting Fundamentals	
DRFT 114	Introduction to Solid Modeling	
ET 109	Computer Drafting Fundamentals	
	Credits	14
Semester 3	5 15 1 0 10 10	
	ons - English Composition Level 2	3
ENGL 2210G	Professional & Technical Communication	2
COMM 1115G	ons - Oral Communications Introduction to Communication	3
or COMM 113		
Area III: Laboratory S 16 credits from diffe	Sciences - Choose one from the following (total of rent prefixes/areas):	4
CHEM 1215G	General Chemistry I Lecture and Laboratory for STEM Majors	
CHEM 1225G	General Chemistry II Lecture and Laboratory for STEM Majors	
GEOL 1110G	Physical Geology	
PHYS 1310G	Calculus -Based Physics I	
& PHYS 1310L	and Calculus -Based Physics I Lab	
PHYS 1320G & PHYS 1320L	Calculus -Based Physics II and Calculus -Based Physics II Lab	
	d Area III NM General Education course in the	
NMSU/DACC Cat		
	Course - Choose one from the following:	3
C E 151	Introduction to Civil Engineering	
C E 233	Mechanics-Statics	

MATH 2530G Approved Elective	Calculus III	3
spproved Liective	Credits	16
Semester 4	Credits	10
	Sciences - Choose one from the following (total of	4
	rent prefixes/areas):	
CHEM 1215G	General Chemistry I Lecture and Laboratory for STEM Majors	
CHEM 1225G	General Chemistry II Lecture and Laboratory for STEM Majors	
GEOL 1110G	Physical Geology	
PHYS 1310G & PHYS 1310L	Calculus -Based Physics I and Calculus -Based Physics I Lab	
PHYS 1320G & PHYS 1320L	Calculus -Based Physics II and Calculus -Based Physics II Lab	
Or other approved	d Area III NM General Education course in the alog.	
	Choose one from the following:	3
ENGL 1410G	Introduction to Literature	
ENGL 2310G	Introduction to Creative Writing	
ENGL 2520G	Film as Literature	
ENGL 2650G	World Literature I	
HIST 1105G	Making History	
HIST 1110G	United States History I	
HIST 1120G	United States History II	
HIST 1130G	World History I	
HIST 1140G	World History II	
HIST 1150G	Western Civilization I	
HIST 1160G	Western Civilization II	
HIST 2245G	Islamic Civilizations to 1800	
HIST 2246G	Islamic Civilizations since 1800	
HIST 2250G	East Asia to 1600	
HIST 2251G	East Asia since 1600	
PHIL 1115G	Introduction to Philosophy	
PHIL 1120G	Logic, Reasoning, & Critical Thinking	
PHIL 1140G	Quest for God	
PHIL 1145G	Philosophy, Law, and Ethics	
PHIL 1155G	Philosophy of Music	
PHIL 2110G	Introduction to Ethics	
PHIL 2230G	Philosophical Thought	
	d Fine Arts - Choose one from the following:	3
ARTH 1115G	Orientation in Art	· ·
ARTH 2110G	History of Art I	
ARTH 2120G	History of Art II	
ARTS 1145G	Visual Concepts	
DANC 1110G	Dance Appreciation	
MUSC 1110G	Music Appreciation: Jazz	
MUSC 1130G	Music Appreciation: Western Music	
THEA 1110G	Introduction to Theatre	
	Course - Choose one from the following:	3
C E 151	Introduction to Civil Engineering	3
C E 233	Mechanics-Statics	
MATH 2530G	Calculus III	
Approved Elective		2
- F-1-30 2.00tive	Credits	15
	Total Credite	60

Total Credits

Health Information Technology

Associate of Applied Science Degree

Certificate of Completion

HIT Certificate

Health Information Technicians are counted among the many highly qualified health professionals necessary to meet the growing needs of the healthcare industry. One of the things that sets this field apart is that there is little or no direct contact with patients.

The following are a sampling of the duties health information technicians typically perform:

- Analyzing and evaluating health records that comply with health information standards and regulations;
- Coding symptoms, diseases, operations, procedures, and other therapies for maximum reimbursement;
- Ensuring that health information is complete and available to legitimate users while protecting patient privacy and maintaining information security; and
- Maintaining and utilizing a variety of health record indexes and storage and retrieval systems.

DACC offers a rigorous course of study to prepare graduates for employment as health information technicians. It includes medical terminology, anatomy and physiology, pathophysiology, pharmacology, health data requirements and standards, classification and coding systems, healthcare reimbursement methods, healthcare statistics, computer literacy, professional practice skills, and life skills such as critical analytical thinking, problem solving, and good study habits.

Upon successful completion of the program, graduates will have numerous options. Job prospects for HIT professionals are very good because their skills are necessary throughout the entire healthcare industry. Typical work settings are physician practices, hospitals, managed care organizations, long-term care facilities, behavioral health facilities, ambulatory care facilities, rehabilitation centers, home healthcare providers, pharmaceutical companies, insurance companies, consulting and law firms, skilled nursing facilities, and federal and state governmental agencies. Current salary ranges and the job outlook for this field can be found in the *Occupational Outlook Handbook* at the U.S. Department of Labor website: bls.gov

Graduates of the Health Information Technology program are eligible to apply to take several different certification examinations, which include those offered by the following professional organizations (among others):

- American Academy of Professional Coders (AAPC) Certified Professional Coder (CPC), Certified Professional Coder—Hospital Based (CPC-H), and Certified Professional Coder—Payer (CCP-P)
- American Health Information Management Association (AHIMA) Certified Coding Associate (CCA), Certified Coding Specialist (CCS), and Certified Coding Specialist—Physician Based (CCS-P)

To graduate from the HIT program, students must complete an internship work-experience component. Because this work takes place in a health-care setting, the employer/site may require students to complete and pass a security background check. Past criminal violations could prevent a student from completing the degree or from obtaining employment in the field.

Health Information Technology - Associate of Applied Science (p. 268)

Health Information Technology - Certificate of Completion (p. 270)

HIT 110. Electronic Health Records 3 Credits

Current electronic health record principles, methods and procedures, and computerized medical record concepts and software applications will be introduced. Restricted to: Community Colleges only.

Prerequisite(s): CS 110 or OECS 105.

HIT 120. Health Information Introduction to Pharmacology 3 Credits

Introduction to the principles of pharmacology, including drug terminology; drug origins, forms, and actions; routes of administration; as well as the use of generic name drugs, trade name drugs and categories of drugs to treat multiple and specific body systems.

HIT 130. Health Information Technology Anatomy & Physiology 3 Credits

An introductory course in the basics of human structure and function. Body systems are examined as to how they relate to proper code selection and as part of the functioning of the body as a whole. Restricted to Community Colleges campuses only.

HIT 140. Health Information Introduction to Pathophysiology 3 Credits

Introduction to the nature of disease and its effect on body systems. Disease processes affecting the human body via an integrated approach to specific disease entities will be presented including a review of normal functions of the appropriate body systems. Diseases will be studied in relation to their etiology, pathology, physical signs and symptoms, diagnostic procedures, complications, treatment modalities and prognosis.

HIT 150. Introduction to Medical Terminology 3 Credits

The study and understanding of medical terminology as it relates to diseases, their causes and effects, and the terminology used in various medical specialties. Emphasis will be placed on learning the basic elements of medical words, appropriate spelling and use of medical terms, and use of medical abbreviations. Restricted to: Community Colleges only.

HIT 158. Advanced Medical Terminology 3 Credits

Builds upon the concepts covered in <u>HIT 150</u> or <u>AHS 120</u> providing greater understanding of how to properly use and apply medical terminology used in the various health fields. Medical terminology associated with the body system's anatomy and physiology, pathology, diagnostic and therapeutic procedures, pharmacology, and abbreviations will be emphasized. Restricted to Community Colleges campuses only. **Prerequisite(s):** <u>HIT 150</u> or <u>AHS 120</u>.

HIT 221. Internship I

1-3 Credits (1-3)

Work experience that directly relates to a student's major field of study that provides the student an opportunity to explore career paths and apply knowledge and theory learned in the classroom. Internships may be paid or unpaid. Students are supervised/evaluated by both the employer and the instructor. May be repeated up to 6 credits. Consent of Instructor required. Restricted to: HIT & BOT majors. S/U Grading (S/U, Audit). Restricted to Dona Ana campus only.

HIT 228. Medical Insurance Billing

3 Credits

Comprehensive overview of the insurance specialist's roll and responsibilities. Concepts and applications that will assist the student in understanding the steps necessary for successfully completing the insurance claim filing and reimbursement processes for various insurance carriers, both private and government, will be emphasized. Restricted to Carlsbad campus only.

Prerequisite(s): HIT/NURS 150; BOT 208.

HIT 240. Health Information Quality Management 3 Credits

Introduction to basic concepts of quality improvement and performance improvement as they apply to health record systems and the health care industry. Quality assessment and improvement standards and requirements of licensing, accrediting fiscal and other regulatory agencies will be presented.

HIT 248. Medical Coding I

3 Credits (2+2P)

Comprehensive overview of the fundamentals, coding conventions, and principles of selecting the most appropriate ICD-10-CM/PCS diagnostic and procedure codes. The most recent version of ICD-10-CM/PCS and an in depth study of current Official Coding Guidelines for coding and reporting will be emphasized. Restricted to Community Colleges campuses only.

Prerequisite(s): <u>BOT 228</u>. HIT 255. SPECIAL TOPICS

3 Credits

Specific topics to be announced in the Schedule of Classes. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

HIT 258. Medical Coding II

3 Credits (2+2P)

Continuation of Medical Coding I. Comprehensive overview of the coding and reporting guidelines, fundamentals, coding conventions, and principles of selecting the most appropriate CPT and HCPCS procedural codes for all medical specialties. The most recent version of CPT and a continued study of the ICD-10-CM/PCS coding conventions and principles will be emphasized. Designed as a medical coding capstone course. Restricted to Community Colleges campuses only.

Prerequisite(s): HIT 248.

HIT 268. Health Information Systems

3 Credits

Overview of health data management, work planning, and organization principles; an introduction to health care information systems; and review of the fundamentals of information systems for managerial, clinical support, and information systems.

Name: Jessica Arellano

Office Location: DAEM 100 O

Phone: (575) 527-7579

Email: jarellano@dacc.nmsu.edu

Website: https://dacc.nmsu.edu/hit/

Health Information Technology - Associate of Applied Science

Doña Ana Community College 2020-21 Catalog

Title

(67-68 credits)

Prefix

General Education

NOTE: Students must earn a final grade of C- or better in all required HIT and OATS courses and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 67 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Select one course from 12-14 credits ^{1, 2}	four of the following six content areas for a total of	12-14
	ourses from Areas I, II, IV, and V; students do not I courses to complete the General Education	
Area I: Communica	tions	
ENGL 1110G	Composition I ³	
Area II: Mathematic		
MATH 1130G	Survey of Mathematics ^{3, 4}	
Area IV: Social/Beh	avioral Sciences	
ECON 1110G	Survey of Economics ³	
Area V: Humanities		
PHIL 1115G	Introduction to Philosophy ³	
or PHIL 2110G	Introduction to Ethics	
General Education Elect	tive ²	3-4
Core Requirements		
BMGT 240	Human Relations	3
Related/Professional R	equirements (21 credits)	
HIT 110	Electronic Health Records	3
or OATS 110	Records Management	
HIT 221	Internship I ⁵	3
or OATS 221	Internship I	
HIT 240	Health Information Quality Management	3
HIT 268	Health Information Systems	3
OATS 106	Business Mathematics	3
OATS 209	Business and Technical Communications	3
OATS 239	Personal Development	3
Major Requirements (2	27 credits)	
Technical Requirements	3	
HIT 120	Health Information Introduction to Pharmacology	3
HIT 130	Health Information Technology Anatomy & Physiology	3
HIT 140	Health Information Introduction to Pathophysiology	3
HIT 150	Introduction to Medical Terminology	3
HIT 158	Advanced Medical Terminology	3
HIT 248	Medical Coding I	3
HIT 258	Medical Coding II	3
OATS 208	Medical Office Procedures	3

OATS 228	Medical Insurance Billing	3
Total Credits		67-68

- Each course selected must be from a different area and students cannot take multiple courses in the same area.
- See the <u>General Education</u> (p. 52) section of the catalog for a full list of courses
- Courses are identical to those offered at New Mexico State University Las Cruces (main) Campus.
- MATH 1130G Survey of Mathematics is required for the degree but students may need to take any prerequisites needed to enter MATH 1130G first.
- ⁵ HIT 221 Internship I/OATS 221 Internship I are restricted to majors.

(67-68 credits)

Credits

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must earn a final grade of C- or better in all required HIT and OATS courses and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 67 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course	Title	Credits
Semester 1		
FALL		
Area I: Communication	ons - English Composition Level 1	4
ENGL 1110G	Composition I	
OATS 208	Medical Office Procedures	3
HIT 150	Introduction to Medical Terminology	3
OATS 106	Business Mathematics	3
OATS 239	Personal Development	3
	Credits	16
Semester 2		
SPRING		
Area II: Mathematics		3
MATH 1130G	Survey of Mathematics	
OATS 228	Medical Insurance Billing	3
HIT 158	Advanced Medical Terminology	3
OATS 209	Business and Technical Communications	3
HIT 130	Health Information Technology Anatomy & Physiology	3
	Credits	15
Semester 3		
SUMMER		
General Education Elesction of NMSU/DA	ective - See NM General Education Requirements CC Catalog.	3-4

HIT 110	Electronic Health Records	3
	Credits	6-7
Semester 4		
FALL		
Area IV: Social/Beha	avioral Science	3
ECON 1110G	Survey of Economics	
Area V: Humanities		3
PHIL 1115G	Introduction to Philosophy	
HIT 140	Health Information Introduction to Pathophysiology	3
HIT 248	Medical Coding I	3
BMGT 240	Human Relations	3
	Credits	15
Semester 5		
SPRING		
HIT 120	Health Information Introduction to Pharmacology	3
HIT 221 or OATS 221	Internship I or Internship I	3
HIT 240	Health Information Quality Management	3
HIT 258	Medical Coding II	3
HIT 268	Health Information Systems	3
	Credits	15
	Total Credits	67-68

Health Information Technology - Certificate of Completion

Doña Ana Community College 2020-21 Catalog

(31 credits)

NOTE: Students who lack prior health and/or general office experience may need to take course-related prerequisites.

NOTE: Students must earn a final grade of C- or better in all required HIT and OATS courses and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 31 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
Core Requirements (7	Credits)	
ENGL 1110G	Composition I 1	4
OATS 106	Business Mathematics	3
Related Requirements	s (9 credits)	
AHS 202	Legal and Ethical Issues in Health Care	3
HIT 110	Electronic Health Records	3
or OATS 110	Records Management	
OATS 239	Personal Development	3
Technical Requirement	nts (15 credits)	
HIT 130	Health Information Technology Anatomy & Physiology	3

HIT 150	Introduction to Medical Terminology	3
HIT 158	Advanced Medical Terminology	3
OATS 208	Medical Office Procedures	3
OATS 228	Medical Insurance Billing	3
Total Credits		31

Courses are identical to those offered at New Mexico State University Las Cruces (main) Campus.

(31 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must earn a final grade of C- or better in all required HIT and OATS courses and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University certificate requirements, which include: General Education requirements and elective credits to total at least 31 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course	Title	Credits
Semester 1		
Area I: Communication	ns - English Composition Level 1	4
ENGL 1110G	Composition I	
HIT 130	Health Information Technology Anatomy & Physiology	3
HIT 150	Introduction to Medical Terminology	3
OATS 106	Business Mathematics	3
OATS 239	Personal Development	3
	Credits	16
Semester 2		
AHS 202	Legal and Ethical Issues in Health Care	3
HIT 110	Electronic Health Records	3
or OATS 110	or Records Management	
HIT 158	Advanced Medical Terminology	3
OATS 208	Medical Office Procedures	3
OATS 228	Medical Insurance Billing	3
	Credits	15
	Total Credits	31

Heating, Ventilation, Air Conditioning and Refrigeration

Associate of Applied Science Degree

Certificates of Completion

· HVAC/R

The climate in New Mexico creates a demand for skilled technicians in both heating and cooling because people prefer to live and work in

comfort. Every new home, hospital, university building, shopping mall, or office complex requires installation mechanics, service technicians, operating engineers, maintenance foremen, and trained crews to keep complex environmental systems operating efficiently.

The heating, air conditioning, and refrigeration industry is one of the country's most stable. The supply of qualified, trained people has not kept pace with the demand, and new opportunities are constantly developing. The demand for trained HVACR graduates is also increasing due to Environmental Protection Agency requirements that refrigerants be handled by a certified technician.

Technicians knowledgeable in heating, air conditioning, and refrigeration are also needed in defense, space exploration, and manufacturing. Because climate control is important wherever microprocessors are used in manufacturing or scientific research, skilled technicians are in demand in these fields. Many experienced technicians own and manage their own businesses.

The Heating, Ventilation, Air Conditioning and Refrigeration program at DACC uses training facilities equipped with the most modern test equipment and tools available. As a student, you will learn to—

- service, repair, and maintain heating, air conditioning, and refrigeration systems;
- read and interpret technical drawings, schematics, and symbols to diagnose and troubleshoot problems in a system;
- evaluate, diagnose, and service various mechanical and electrical controls;
- apply the mathematics related to the heating, air conditioning, and refrigeration trade;
- handle customer relations, shop management procedures, and record keeping relative to the trade;
- properly use special tools and testing equipment; and
- · become certified in Section 608, EPA certification.

A unique cooperative training program is offered during the final semester to provide students with field experiences. Working side by side with journeymen technicians, students are offered an opportunity to practice and refine their new skills.

After the first semester, full-time heating, air conditioning, and refrigeration students must purchase a personal set of technician's tools (approximate cost, which may vary, \$1200). The tool set includes the basic tools that most employers require on the job. Part-time students will purchase only those tools required by the specific course(s) in which they are enrolled.

Students will also provide their own medical/accident insurance. They need to be in good physical condition and possess the ability and desire to work with their minds and hands.

The curriculum is competency and performance based and uses multimedia classroom instruction and hands-on laboratory exercises. Classroom and laboratory hours are listed in the Schedule of Classes.

All heating, air conditioning, and refrigeration students are eligible to join SkillsUSA. Membership provides students an opportunity to develop their leadership skills and to become proficient in public speaking and parliamentary procedure. SkillsUSA also offers students a chance to demonstrate their occupational skills. Skill competitions are conducted each year in New Mexico for all postsecondary students.

Whether taking classes or working on a job site, students enrolled in this program will be required to perform the same job duties and be able to meet the same physical requirements that they will as a graduate in the field. Depending where they find employment, graduates may be required to

- · work in inclement weather,
- · lift up to 50 pounds from the ground,
- · have good eye-hand coordination,
- work safely around electrical hazards using the appropriate safety equipment,
- · work safely using hand and power tools,
- · ascend and descend stairs and ladders, and
- · stand, squat, stoop, or kneel for long periods of time.

Licensure for journeyman gas fitters, journeyman refrigeration workers, and journeyman sheet metal workers require both a written and practical exam. Not all licensing agencies provide special testing accommodations.

Additional Graduation Requirements

To receive either an associate degree or a certificate of completion, students are required to obtain a Career Readiness Certificate in the areas of Applied Math, Workplace Documents, and Graphic Literacy at the appropriate level for their respective degree option. OETS 102 Career Readiness Certification Preparation, is a course offered to assist the student in their preparation to attain the required Career Readiness Certificates. A program advisor can provide additional information.

Heating, Ventilation, Air Conditioning and Refrigeration - Associate of Applied Science (p. 272)

HVAC/R - Certificate of Completion (p. 274)

Residential HVAC - Certificate of Completion (p. 275)

HVAC 100. EPA Clean Air Act: Section 608 1 Credit (1)

Refrigerant certification preparation to include basics of refrigerant bearing equipment, ozone depletion and the new legislation, technician categories covered and the certification examination.

HVAC 101. Fundamentals of Refrigeration 4 Credits (3+2P)

Refrigeration cycle and the various mechanical components. Use of special tools, equipment, and safety precautions.

HVAC 102. Fundamentals of Electricity

4 Credits (3+2P)

Introduction to electricity theory, OHM s Law, circuits, AC/DC, and practical applications.

HVAC 103. Electrical and Mechanical Controls I

4 Credits (3+2P)

Applications of basic electrical and mechanical controls. Reading and drawing diagrams of simple refrigerating equipment. Safe use of testing equipment.

Prerequisites: HVAC 101 and HVAC 102, or consent of instructor.

HVAC 110. Professional Development and Leadership 1 Credit (1)

As members and/or officers of various student professional organizations, students gain experience in leadership, team building, and community service. Students competing in Skills USA are required to register for the course. May be repeated up to 6 credits. Consent of Instructor required. Restricted to: HVAC majors. Graded: S/U Grading (S/U, Audit). Restricted to: Community Colleges only.

HVAC 113. Job Shadowing

1 Credit (1)

4 Credits (3+2P)

Course will expose students to actual HVAC/R field work and provide them knowledge of the expectations of field work as they shadow an HVAC/R technician. Consent of instructor required. Restricted to: Community colleges only.

HVAC 205. Commercial Refrigeration Systems 4 Credits (3+2P)

Service and maintenance of commercial refrigeration equipment to include evacuation and charging procedures, electrical diagrams, and compressors and accessories.

Prerequisites: HVAC 103 or consent of instructor. HVAC 207. Residential Air Conditioning Systems

Applications and types of equipment used in comfort cooling. Preventive maintenance, service, and repairs common to evaporative coolers and refrigerated air conditioning systems. Air properties and psychometrics.

Prerequisite: HVAC 103 or consent of instructor.

HVAC 209. Residential Heating Systems 4 Credits (3+2P)

Gas and electric systems used in comfort heating. Maintenance procedures, safety, troubleshooting, and servicing malfunctions in equipment.

Prerequisite: HVAC 103 or consent of instructor.

HVAC 210. Commercial Air Conditioning and Heating Systems 4 Credits (3+3P)

Covers troubleshooting mechanical and electrical problems associated with HVAC equipment in commercial buildings. Includes gas, electric, and heat pump systems. Restricted to Community Colleges campuses only. **Prerequisite(s)**: HVAC 103 or consent of instructor.

HVAC 211. Heat Pump Systems

4 Credits (3+2P)

Reverse cycle refrigeration systems utilized in comfort heating and cooling. Troubleshooting mechanical electrical problems associated with heat pumps. HVAC 103 or consent of instructor.

HVAC 213. Practicum

3 Credits (3)

Working in the field with journeymen service technicians. Develop and apply job skills. May be repeated up to 3 credits. Consent of Instructor required. Restricted to: HVAC majors. Restricted to Community Colleges campuses only.

Prerequisite(s): HVAC 113 and Consent of instructor.

HVAC 220. Introduction to Sheet Metal Fabrication 4 Credits (3+2P)

Introduction to sheet metal fabrication to include hands-on practical laboratory applications, cutting and forming procedures, identifying types and gauges. Design and layout techniques.

Prerequisite: OETS 118 or equivalent math or consent of instructor.

HVAC 225. New Mexico Mechanical Codes: HVAC

1-4 Credits

Principles and regulations developed for HVAC, sheet metal, and plumbing occupations to include terminology, ventilation air supply, exhaust systems, duct systems, combustion air, chimneys and vents, boilers/water heaters, refrigeration, panel and hydronic panel heating, fuel gas piping, storage systems, solar systems, and workmanship standards. May be repeated for a maximum of 12 credits.

HVAC 255. Special Topics

1-6 Credits

Topics to be announced in the Schedule of Classes. May be repeated for a maximum of 12 credits.

Prerequisite: consent of instructor.

HVAC 290. Special Problems

1-4 Credits

Individual studies related to heating, air conditioning, and refrigeration. **Prerequisites:** HVAC 101, HVAC 102, and consent of instructor.

Name: Terry Mount, Department Chair

Office Location: DATS 155A

Phone: (575) 527-7596

Website: https://dacc.nmsu.edu/hvac/

Heating, Ventilation, Air Conditioning and Refrigeration - Associate of Applied Science

Doña Ana Community College 2020-21 Catalog

(61 credits)

NOTE: Students must earn a final grade of C- or better in all required HVAC courses/Technical Requirements and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 61 credits (61 of credits listed for degree). Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix Title Credits

12-14

General Education

Select one course from four of the following six content areas for a total of 12-14 credits ^{1, 2}

This degree requires a course from Area I; students must select three courses from the remaining areas to complete General Education requirements

Area I: Communications

ENGL 1110G Composition I ³

Area II: Mathematics

Course Options for Area III

ASTR 1115G Introduction Astro (lec+lab) (Recommended)

	BIOL 1120G & BIOL 1120L	Human Biology and Human Biology Laboratory (Recommended)	
	BIOL 2610G & BIOL 2610L	Principles of Biology: Biodiversity, Ecology, and Evolution and Principles of Biology: Biodiversity, Ecology, and Evolution Laboratory (Recommended)	
	CHEM 1120G	Introduction to Chemistry Lecture and Laboratory (non majors) (Recommended)	
	GEOG 1110G	Physical Geography (Recommended)	
	PHYS 1115G	Survey of Physics with Lab (Recommended)	
	PHYS 1230G & PHYS 1230L	Algebra-Based Physics I and Algebra-Based Physics I Lab (Recommended)	
	Area IV: Social and I	Behavioral Sciences	
	Course Options for	Area IV	
	ANTH 1115G	Introduction to Anthropology (Recommended)	
	ANTH 1137G	Human Ancestors (Recommended)	
	ANTH 1160G	World Archaeology (Recommended)	
	ECON 1110G	Survey of Economics (Recommended)	
	ECON 2110G	Macroeconomic Principles (Recommended)	
	ECON 2120G	Microeconomics Principles (Recommended)	
	GEOG 1120G	World Regional Geography (Recommended)	
	POLS 1110G	Introduction to Political Science (Recommended)	
	POLS 1120G	American National Government (Recommended)	
	POLS 1130G	Issues in American Politics (Recommended)	
	PSYC 1110G	Introduction to Psychology (Recommended)	
	SOCI 1110G	Introduction to Sociology (Recommended)	
	SOCI 2310G	Contemporary Social Problems (Recommended)	
	Area V: Humanities		
	Course Options for	Area V	
	HIST 1110G	United States History I (Recommended)	
	HIST 1120G	United States History II (Recommended)	
	HIST 1150G	Western Civilization I (Recommended)	
	HIST 1160G	Western Civilization II (Recommended)	
	PHIL 1115G	Introduction to Philosophy (Recommended)	
	PHIL 1120G	Logic, Reasoning, & Critical Thinking (Recommended)	
	PHIL 2110G	Introduction to Ethics (Recommended)	
	Area VI: Creative an	d Fine Arts	
	Course Options for	Area VI	
	ARTH 1115G	Orientation in Art (Recommended)	
	ARTS 1145G	Visual Concepts (Recommended)	
	MUSC 1110G	Music Appreciation: Jazz (Recommended)	
	MUSC 1130G	Music Appreciation: Western Music (Recommended)	
Ge	neral Education Elect	ive	
CC	MM 1115G	Introduction to Communication	3
Со	re Requirements		
Re	lated Requirements		
OE	TS 118	Mathematics for Technicians	3
Ma	ajor Requirements		
Те	chnical Requirements		
Н١	/AC 100	EPA Clean Air Act: Section 608 ⁴	1
Н١	/AC 101	Fundamentals of Refrigeration	4
Н١	/AC 102	Fundamentals of Electricity	4

HVAC 103	Electrical and Mechanical Controls I	4
HVAC 113	Job Shadowing	1
HVAC 205	Commercial Refrigeration Systems	4
HVAC 207	Residential Air Conditioning Systems	4
HVAC 209	Residential Heating Systems	4
HVAC 210	Commercial Air Conditioning and Heating Systems	4
HVAC 211	Heat Pump Systems	4
HVAC 213	Practicum	3
Electives, to bring the	e total credits to 61	
Select 4 credits from	the following:	4
DRFT 115	General Construction Safety	
HVAC 110	Professional Development and Leadership	
HVAC 220	Introduction to Sheet Metal Fabrication	
HVAC 225	New Mexico Mechanical Codes: HVAC	
WELD 102	Welding Fundamentals	
and/or other appro	oved elective(s)	
Total Credits		

- Each course selected must be from a different area and students cannot take multiple courses in the same area.
- See the <u>General Education</u> (p. 52) section of the catalog for a full list of courses.
- Courses are identical to those offered at New Mexico State University Las Cruces (main) Campus.
- A fee of \$55 is required for study guide and testing; must pass Type 1 and Type 2 tests.

(61 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must earn a final grade of C- or better in all HVAC courses and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 61 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course	Title	Credits
Semester 1		
Area I: Communication	ons - English Composition Level 1	4
ENGL 1110G	Composition I	
HVAC 100	EPA Clean Air Act: Section 608	1
HVAC 101	Fundamentals of Refrigeration	4
HVAC 102	Fundamentals of Electricity	4
HVAC 113	Job Shadowing	1
	Credits	14
Semester 2		
HVAC 207	Residential Air Conditioning Systems	4

HVAC 210 Commercial Air Conditioning and Heating Systems		4
HVAC 211	Heat Pump Systems	4
Elective		2
	Credits	14
Semester 3		
Education Areas III, I\	n - Choose one course from different NM General /, V, and VI. A total of 3 courses (10 credits) from quired. Approved courses include:	3
Area III: Laboratory S	ciences (4 credits)	
ASTR 1115G	Introduction Astro (lec+lab)	
BIOL 1120G	Human Biology	
& BIOL 1120L	and Human Biology Laboratory	
BIOL 2610G & 2610G	Principles of Biology: Biodiversity, Ecology, and Evolution and Principles of Biology: Biodiversity, Ecology, and Evolution	
CHEM 1120G	Introduction to Chemistry Lecture and Laboratory (non majors)	
GEOG 1110G	Physical Geography	
PHYS 1115G	Survey of Physics with Lab	
PHYS 1230G & PHYS 1230L	Algebra-Based Physics I and Algebra-Based Physics I Lab	
Area IV: Social/Behav	rioral Sciences (3 credits)	
ANTH 1115G	Introduction to Anthropology	
ANTH 1137G	Human Ancestors	
ANTH 1160G	World Archaeology	
ECON 1110G	Survey of Economics	
ECON 2110G	Macroeconomic Principles	
ECON 2120G	Microeconomics Principles	
GEOG 1120G	World Regional Geography	
POLS 1110G	Introduction to Political Science	
POLS 1120G	American National Government	
POLS 1130G	Issues in American Politics	
PSYC 1110G	Introduction to Psychology	
SOCI 1110G	Introduction to Sociology	
SOCI 2310G	Contemporary Social Problems	
Area V: Humanities (3	credits)	
HIST 1110G	United States History I	
HIST 1120G	United States History II	
HIST 1150G	Western Civilization I	
HIST 1160G	Western Civilization II	
PHIL 1115G	Introduction to Philosophy	
PHIL 1120G	Logic, Reasoning, & Critical Thinking	
PHIL 2110G	Introduction to Ethics	
Area VI: Creative and	Fine Arts (3 credits)	
ARTH 1115G	Orientation in Art	
ARTS 1145G	Visual Concepts	
MUSC 1110G	Music Appreciation: Jazz	
MUSC 1130G	Music Appreciation: Western Music	
HVAC 103	Electrical and Mechanical Controls I	4
HVAC 205	Commercial Refrigeration Systems	4
HVAC 209	Residential Heating Systems	4
	Credits	15
Semester 4 General Education Ele	ective - Area I: Communications - Oral	3
Communications		
COMM 1115G	Introduction to Communication	

NM General Education - NM General Education - Choose two courses from different NM General Education Areas III, IV, V, and VI. A total of 2 coursess (10 credits) from different areas are required. A list of approved courses can be found in Semester 3.

HVAC 213	Practicum	3
OETS 118	Mathematics for Technicians	3
Elective		2
	Credits	18
	Total Credits	61

7

HVAC/R - Certificate of Completion Doña Ana Community College 2020-21 Catalog

(41 credits)

The following curriculum is designed for students who choose the certificate option in HVAC/R. The certificate program requires approximately a year and a half to complete.

NOTE: Students must receive a final grade of C- or better in all required HVAC courses/Technical Requirements and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University certificate requirements to total at least 41 credits (41 of credits listed for degree). Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
Related Requirements		
OETS 103	Technical Career Skills	4
or ENGL 1110G	Composition I	
Technical Requiremen	ts	
HVAC 100	EPA Clean Air Act: Section 608 ¹	1
HVAC 101	Fundamentals of Refrigeration	4
HVAC 102	Fundamentals of Electricity	4
HVAC 103	Electrical and Mechanical Controls I	4
HVAC 113	Job Shadowing	1
HVAC 205	Commercial Refrigeration Systems	4
HVAC 207	Residential Air Conditioning Systems	4
HVAC 209	Residential Heating Systems	4
HVAC 210	Commercial Air Conditioning and Heating Systems	4
HVAC 211	Heat Pump Systems	4
HVAC 213	Practicum	3
Total Credits		41

A fee of \$55 is required for study guide and testing; must pass Type 1 and Type 2 tests.

(41 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to

create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must earn a final grade of C- or better in all required HVAC courses/Technical Requirements and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University certificate requirements to total at least 41 credits (41 of credits listed for degree). Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course	Title	Credits
Semester 1		
ENGL 1110G or OETS 103	Composition I ¹ or Technical Career Skills	4
HVAC 100	EPA Clean Air Act: Section 608	1
HVAC 101	Fundamentals of Refrigeration	4
HVAC 102	Fundamentals of Electricity	4
	Credits	13
Semester 2		
HVAC 113	Job Shadowing	1
HVAC 207	Residential Air Conditioning Systems	4
HVAC 210	Commercial Air Conditioning and Heating Systems	4
HVAC 211	Heat Pump Systems	4
	Credits	13
Semester 3		
HVAC 103	Electrical and Mechanical Controls I	4
HVAC 205	Commercial Refrigeration Systems	4
HVAC 209	Residential Heating Systems	4
	Credits	12
Semester 4		
HVAC 213	Practicum	3
	Credits	3
	Total Credits	41

While OETS 103 Technical Career Skills meets program requirements, it does not meet the NM General Education Area I: Communications -English Composition Level 1 requirements.

Residential HVAC - Certificate of Completion

Doña Ana Community College 2020-21 Catalog

(29 credits)

The following curriculum, which requires approximately one year to complete, is designed to prepare a student to install, service, and maintain residential heating and air conditioning systems.

NOTE: Students must earn a final grade of C- or better in all required HVAC courses/Technical Requirements and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University certificate requirements to total at least 29 credits (29 of credits listed for degree). Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
Related Requirement	s	
OETS 103	Technical Career Skills	4
or ENGL 1110G	Composition I	
Technical Requirement	nts	
HVAC 100	EPA Clean Air Act: Section 608 ²	1
HVAC 101	Fundamentals of Refrigeration	4
HVAC 102	Fundamentals of Electricity	4
HVAC 113	Job Shadowing	1
HVAC 207	Residential Air Conditioning Systems	4
HVAC 209	Residential Heating Systems	4
HVAC 213	Practicum	3
HVAC 220	Introduction to Sheet Metal Fabrication	4
Total Credits		29

A fee of \$55 is required for study guide and testing; must pass Type 1 and Type 2 tests.

(29 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students much achieve a cumulative grade-point average of 2.0, a final grade of C- or better in ENGL 1110G Composition I, and a C- or better in all required courses.

Students must complete all University certificate requirements to total at least 29 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course	Title	Credits
Semester 1		
ENGL 1110G or OETS 103	Composition I ¹ or Technical Career Skills	4
HVAC 100	EPA Clean Air Act: Section 608	1
HVAC 101	Fundamentals of Refrigeration	4
HVAC 102	Fundamentals of Electricity	4
	Credits	13
Semester 2		
HVAC 113	Job Shadowing	1
HVAC 207	Residential Air Conditioning Systems	4
HVAC 220	Introduction to Sheet Metal Fabrication	4
	Credits	9
Semester 3		
HVAC 209	Residential Heating Systems	4

HVAC 213	Practicum	3
	Credits	7
	Total Credits	29

While OETS 103 Technical Career Skills meets program requirements, it does not meet NM General Education Area I: Communications - English Composition Level 1 requirements.

Hospitality and Tourism

Associate of Applied Science Degree

- · Food and Beverage Concentration
- · Lodging and Tourism Concentration

Hospitality and tourism is one of the fastest growing industries in the U.S. and in New Mexico it is the largest employment sector. The industry is highly promoted in Las Cruces, as well as throughout the state.

One reason the hospitality industry has such broad appeal is because there are so many different types of positions available in such a large variety of settings. Graduates may work in—

- · front-office operations and reservations
- · sales and promotion
- · food and beverage operations
- · culinary arts, banquets, and catering
- · travel and tours
- · finance and accounting

in such settings as-

- resorts
- cruise lines
- hotels and motels
- · convention facilities
- restaurants

The Hospitality and Tourism associate of applied science degree has two options:

- · Food and Beverage, and
- · Lodging and Tourism.

Training is offered in supervision, communication, marketing, finance, and operations, as well as in subject matter specific to the option chosen. Through classroom work, volunteering at industry-sponsored events, culinary laboratory experience, and on-site training, students acquire the skills needed to succeed in the hospitality-services industry.

This program is designed for people who are entering the hospitality and tourism field, as well as for those who are already employed in the industry and who want to upgrade their professional skills.

The majority of the credits earned in the DACC Hospitality and Tourism program may be applied toward a bachelor's degree in Hospitality, Restaurant and Tourism Management at NMSU.

Hospitality and Tourism (Food & Beverage) - Associate of Applied Science (p. 277)

Hospitality and Tourism (Lodging & Tourism) - Associate of Applied Science (p. 279)

HOST 155. Special Topics

1-3 Credits (1-3)

Specific subjects to be announced in the Schedule of Classes. Restricted to: Community Colleges only.

HOST 201. Introduction to Hospitality Industry

3 Credits (3)

Overview of hospitality industry; organization and operation of lodging, food and beverage, and travel and tourism segments; focus on career opportunities and future trends of hospitality industry. Restricted to: Community College campuses only.

HOST 202. Front Office Operations

3 Credits (3)

Hotel/motel front office procedures detailing flow of business, beginning with reservations and extending to the night audit process. Restricted to: Community College campuses only.

HOST 203. Hospitality Operations Cost Control 3 Credits (3)

Management of Food & Beverage facilities using cost control techniques. Functional training in menu analysis and development with all phases of product flow through a Food & Beverage organization explored. Restricted to: Community Colleges only.

HOST 204. Promotion of Hospitality Services

3 Credits (3)

Organization of hotel marketing functions; developing a marketing plan to sell the varied services of the hotel/motel property. Restricted to: Community College campuses only.

HOST 205. Housekeeping, Maintenance, and Security 3 Credits (3)

Function of housekeeping departments, including personnel, sanitation, maintenance, and materials. A survey of security procedures to include guest protection and internal security of hotel/motel assets. Restricted to: Community College campuses only.

HOST 206. Travel and Tourism Operations 3 Credits (3)

Transportation, wholesale and retail operations, attractions, the traveler, tourism development, and operational characteristics of tourism business. Restricted to: Community College campuses only.

HOST 207. Customer Service for the Hospitality Industry 3 Credits (3)

Concepts of service and the customer, integrating the need for service quality, and the continuing efforts to maximize returns for the operation. Classic service styles as well as more modern service techniques are covered. Students gain in-depth managerial knowledge, planning skills, and hands-on techniques for consistently delivering quality and service in a variety of operations. Restricted to: Community College campuses only.

HOST 208. Hospitality Supervision 3 Credits (3)

Strategies for directing, leading, managing change and resolving conflict. Prepares students to meet expectations of management, guests, employees, and governmental agencies. Restricted to: Community College campuses only.

HOST 209. Managerial Accounting for Hospitality 3 Credits (3)

Prepares students to make effective business decisions based on financial report information; forecasting, budgeting, cost analysis. Restricted to: Community College campuses only.

Prerequisite(s): BOT 120 or ACCT 2110.

HOST 210. Catering and Banquet Operations 3 Credits (3)

Teaches the basics of catering and banquet operations, including computer coordination, planning, set up, service, and completion. Restricted to Community Colleges campuses only.

HOST 214. Purchasing and Kitchen Management 3 Credits (3)

Technical purchasing concepts, product selection, and specifications. Safety and sanitation as they relate to food service establishments. Prepares student for work with HACCP programs. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): HOST 203.

HOST 216. Event, Conference and Convention Operations 3 Credits (3)

The ability to successfully plan, organize, arrange, and execute special events is critical to the success of many hospitality organizations. This course gives the student a grounding in the skills necessary to achieve success in this area. A variety of events are discussed and the similarities and differences with conferences and conventions are explored. Students are taught to organize and plan events of varying type and durations. Sales, logistics, and organizing skills are emphasized. Restricted to: Community College campuses only.

HOST 219. Safety, Security and Sanitation in Hospitality Operations 3 Credits (3)

It is the responsibility of the manager to provide appropriate security, sanitation, and safety precautions in hospitality operations. Preparation for internal and external disasters is an important task for the Hospitality Manager. This course uses the National Restaurant Association ServSafe¬ training material. Restricted to: Community College campuses only.

HOST 220. Experiential Travel

1-3 Credits (1-3)

Course provides an opportunity for students to plan, prepare for and experience travel to destinations they might not otherwise have visited. Students experience local culture and peoples. May be repeated up to 9 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): HOST 201 or consent of instructor.

HOST 221. Internship I

1-3 Credits (1-3)

Work experience that directly relates to a student's major field of study that provides the student an opportunity to explore career paths and apply knowledge and theory learned in the classroom. Internships may be paid or unpaid. Students are supervised/evaluated by both the employer and the instructor. May be repeated up to 3 credits. Consent of Instructor required. Restricted to: OEHS,HOST majors.Graded: S/U Grading (S/U, Audit). Restricted to Community Colleges campuses only.

HOST 222. Cooperative Experience II 3 Credits (3)

Continuation of HOST 221. Restricted to majors. Graded: S/U. Restricted to: Community College campuses only. Restricted to HOST majors. **Prerequisite(s):** HOST 221.

HOST 239. Introduction to Hotel Management

3 Credits (3)

This course covers basic management functions in hotels, resorts, Boutique Hotels, Bed & Breakfast establishments, and other lodging operations. All aspects of the operation are covered including guest management, operations, and sales and marketing. Restricted to: Branch campuses only.

HOST 255. Special Topics

3 Credits (3)

Specific subjects to be announced in the Schedule of Classes. May be repeated up to 9 credits. Restricted to Community Colleges campuses only.

HOST 298. Independent Study

1-3 Credits (1-3)

Individual studies directed by consenting faculty with prior approval of department chair. May be repeated for a maximum of 3 credits. Restricted to: Community College campuses only.

Prerequisite(s): Minimum 3.0 GPA and sophomore standing.

rielequisite(s). Willimum 3.0 of A and Sophomore Star

Name: Kim Seifert, Department Chair

Office Location: DAEM 100G

Phone: (575) 527-7518

Website: https://dacc.nmsu.edu/host/

Name: Nancy Gonzalez, Teaching Tech

Office Location: DASR 220Q Phone: (575) 528-7412

Hospitality and Tourism (Food & Beverage) - Associate of Applied Science

Doña Ana Community College 2020-21 Catalog

(64-65 credits)

NOTE: Students must earn a final grade of C- or better in all required Professional Requirements, Major Requirements, and Concentration courses and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and program specific credits to total at least 64 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix Title Credits

General Education

Select one course from four of the following six content areas for a total of 12-14 credits ^{1, 2}

This degree requires courses from Areas I, II, IV, and V; students need to take ONE additional courses to complete the General Education requirements.

12-14

Area I: Communio		
ENGL 1110G	Composition I (grade of C or better required) 3	
Area II: Mathema		
MATH 1130G	Survey of Mathematics ⁴	
Area IV: Social/Be	ehavioral Sciences	
ECON 1110G	Survey of Economics	
Area V: Humanitie	es	
PHIL 1115G	Introduction to Philosophy	
General Education Ele	ective ²	3-4
Core Requirements ((3 credits)	
BMGT 240	Human Relations	3
Related/Professiona	l Requirements (15 Credits)	
BMGT 201	Work Readiness and Preparation	3
BLAW 2110	Business Law I	3
OATS 120	Accounting Procedures I	3
or ACCT 2110	Principles of Accounting I	
HOST 209	Managerial Accounting for Hospitality	3
OATS 215	Spreadsheet Applications	3
Major Requirements	(15 credits)	
HOST 201	Introduction to Hospitality Industry	3
HOST 203	Hospitality Operations Cost Control	3
HOST 208	Hospitality Supervision	3
HOST 219	Safety, Security and Sanitation in Hospitality Operations	3
HOST 221	Internship I (restricted to HOST majors)	3
Concentration Cours	sework (15 credits)	
Select 15 credits fro	m the following:	15
CHEF 125	Introductory Cake Decorating	
CHEF 126	Intermediate Cake Decorating	
CHEF 127	Chocolate Work	
CHEF 128	Advanced Chocolate Work	
CHEF 129	Wedding Cake Design and Construction	
CHEF 233	Culinary Arts Fundamentals I	
CHEF 234	Culinary Arts Fundamentals II	
CHEF 240	Baking Fundamentals I	
CHEF 241	Baking Fundamentals II	
CHEF 260	Nutrition for Chefs	
HOST 210	Catering and Banquet Operations	
H0ST 214	Purchasing and Kitchen Management	
Total Credits		64-65

- Each course selected must be from a different area and students cannot take multiple courses in the same area.
- See the <u>General Education</u> (p. 52) section of the catalog for a full list of courses.
- Courses are identical to those offered at New Mexico State University Las Cruces (main) Campus.

(64-65 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must earn a final grade of C- or better in all required Professional Requirements, Major Requirements, and Concentration courses and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and program specific credits to total at least 64 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

0...........

Title

Cauraa

Course Title	Credits
Semester 1	
FALL	
ENGL 1110G Composition I	4
MATH 1130G Survey of Mathematics	3
BMGT 201 Work Readiness and Preparation	3
HOST 201 Introduction to Hospitality Industry	3
Concentration Courses (Food & Beverage) - Choose ONE from the following: $ \\$	3
CHEF 125 Introductory Cake Decorating	
CHEF 126 Intermediate Cake Decorating	
CHEF 127 Chocolate Work	
CHEF 128 Advanced Chocolate Work	
CHEF 129 Wedding Cake Design and Construction	
CHEF 233 Culinary Arts Fundamentals I	
CHEF 234 Culinary Arts Fundamentals II	
CHEF 240 Baking Fundamentals I	
CHEF 241 Baking Fundamentals II	
CHEF 260 Nutrition for Chefs	
HOST 210 Catering and Banquet Operations	
HOST 214 Purchasing and Kitchen Management	
Credits	16
Semester 2	
SPRING	
ECON 1110G Survey of Economics	3
PHIL 1115G Introduction to Philosophy	3
BMGT 240 Human Relations	3
OATS 215 Spreadsheet Applications	3
Concentration Courses (Food & Beverage) - Choose ONE course fre the list in Semester 1.	rom 3
Credits	15
Semester 3	
SUMMER	
General Education Elective - Choose one course from the NM General Education Requirements in the NMSU/DACC Catalog.	eral 3-4
Credits	3-4
Semester 4	
FALL	
BLAW 2110 Business Law I	3
HOST 208 Hospitality Supervision	3
OATS 120 Accounting Procedures I or ACCT 2110 or Principles of Accounting I	3
$\label{lem:concentration} \mbox{Courses (Food \& Beverage) - Choose TWO courses} \\ \mbox{the list found in Semester 1.}$	from 6
Credits	15

Semester 5		
SPRING		
HOST 203	Hospitality Operations Cost Control	3
HOST 209	Managerial Accounting for Hospitality	3
HOST 219	Safety, Security and Sanitation in Hospitality Operations	3
HOST 221	Internship I	3
Concentration Course the list in Semester 1.	s (Food & Beverage) - Choose ONE course from	3
	Credits	15
	Total Credits	64-65

Hospitality and Tourism (Lodging & Tourism) - Associate of Applied Science

Doña Ana Community College 2020-21 Catalog

(64-65 credits)

Semester 5

NOTE: Students must earn a final grade of C- or better in all required Professional Requirements, Major Requirements, and Concentration courses and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and program specific credits to total at least 64 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
General Education		
Select one course from 12-14 credits ^{1, 2}	m four of the following six content areas for a total of	12-14
· .	courses from Areas I, II, IV, and V; students need NAL course to complete the General Education	
Area I: Communic	eations	
ENGL 1110G	Composition I (grade of C or better required) ³	
Area II: Mathema	tics	
MATH 1130G	Survey of Mathematics ⁴	
Area IV: Social/Be	ehavioral Sciences	
ECON 1110G	Survey of Economics	
Area V: Humanitie	es	
PHIL 1115G	Introduction to Philosophy	
General Education Ele	ective ²	3-4
Core Requirements (3 credits)	
BMGT 240	Human Relations	3
Related/Professiona	l Requirements (15 Credits)	
BMGT 201	Work Readiness and Preparation	3
BLAW 2110	Business Law I	3
HOST 209	Managerial Accounting for Hospitality	3
OATS 120	Accounting Procedures I	3
or ACCT 2110	Principles of Accounting I	

OATS 215	Spreadsheet Applications	3
Major Requirements	s (15 Credits)	
HOST 201	Introduction to Hospitality Industry	3
HOST 203	Hospitality Operations Cost Control	3
HOST 208	Hospitality Supervision	3
HOST 219	Safety, Security and Sanitation in Hospitality Operations	3
HOST 221	Internship I (restricted to HOST majors)	3
Concentration Cour	sework (15 Credits)	
Select 15 credits fro	om the following: ⁴	15
HOST 202	Front Office Operations	
H0ST 204	Promotion of Hospitality Services	
HOST 205	Housekeeping, Maintenance, and Security	
HOST 206	Travel and Tourism Operations	
HOST 216	Event, Conference and Convention Operations	
HOST 220	Experiential Travel	
HOST 239	Introduction to Hotel Management	
Total Credits		64-65

- Each course selected must be from a different area and students cannot take multiple courses in the same area.
- See the <u>General Education</u> (p. 52) section of the catalog for a full list of courses.
- Courses are identical to those offered at New Mexico State University Las Cruces (main) Campus.
- Work with your Faculty Advisor to select Concentration courses that meet your career goals.

(64-65 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must earn a final grade of C- or better in all required Professional Requirements, Major Requirements, and Concentration courses and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and program specific credits to total at least 64 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course	Title	Credits
Semester 1		
FALL		
Area I: Communication	ns - English Composition Level 1	4
ENGL 1110G	Composition I	
Area II: Mathematics		3
MATH 1130G	Survey of Mathematics	
BMGT 201	Work Readiness and Preparation	3
HOST 201	Introduction to Hospitality Industry	3

HOST 220 Experiential Travel HOST 239 Introduction to Hotel Management Credits Semester 2 SPRING Area IV: Social/Behavioral Sciences ECON 1110G Survey of Economics Area V: Humanities PHIL 1115G Introduction to Philosophy BMGT 240 Human Relations OATS 215 Spreadsheet Applications Concentration Courses (Lodging & Tourism) - Choose one course from the list in Semester 1. Credits Semester 3 SUMMER General Education Elective - Choose one course from the NM General Education Requirements in the NMSU/DACC Catalog. Credits Semester 4 FALL BLAW 2110 Business Law I HOST 208 Hospitality Supervision OATS 120 or ACCT 2110 or Principles of Accounting I Concentration Courses (Lodging & Tourism) - Choose two courses from the list in Semester 1. Credits Semester 5 SPRING HOST 203 Hospitality Operations Cost Control HOST 209 Managerial Accounting for Hospitality Operations HOST 211 Internship I Concentration Courses (Lodging & Tourism) - Choose two course from the Safety, Security and Sanitation in Hospitality Operations HOST 221 Internship I Concentration Courses (Lodging & Tourism) - Choose two course from the list in Semester 1. Credits	15 15 15 15 15 15 15 15 15 15 15 15 15 1
HOST 220 Experiential Travel HOST 239 Introduction to Hotel Management Credits Semester 2 SPRING Area IV: Social/Behavioral Sciences ECON 1110G Survey of Economics Area V: Humanities PHIL 1115G Introduction to Philosophy BMGT 240 Human Relations OATS 215 Spreadsheet Applications Concentration Courses (Lodging & Tourism) - Choose one course from the list in Semester 1. Credits Semester 3 SUMMER General Education Elective - Choose one course from the NM General Education Requirements in the NMSU/DACC Catalog. Credits Semester 4 FALL BLAW 2110 Business Law I HOST 208 Hospitality Supervision OATS 120 or Accounting Procedures I or Principles of Accounting I Concentration Courses (Lodging & Tourism) - Choose two courses from the list in Semester 1. Credits Semester 5 SPRING HOST 203 Hospitality Operations Cost Control HOST 209 Managerial Accounting for Hospitality Operations HOST 221 Internship I Concentration Courses (Lodging & Tourism) - Choose two course from the list in Semester 1. Internship I Concentration Courses (Lodging & Tourism) - Choose two course from the list in Semester 1.	15
HOST 220 Experiential Travel HOST 239 Introduction to Hotel Management Credits Semester 2 SPRING Area IV. Social/Behavioral Sciences ECON 1110G Survey of Economics Area V. Humanities PHIL 1115G Introduction to Philosophy BMGT 240 Human Relations OATS 215 Spreadsheet Applications Concentration Courses (Lodging & Tourism) - Choose one course from the list in Semester 1. Credits Semester 3 SUMMER General Education Elective - Choose one course from the NM General Education Requirements in the NMSU/DACC Catalog. Credits Semester 4 FALL BLAW 2110 Business Law I HOST 208 Hospitality Supervision OATS 120 Accounting Procedures I or ACCT 2110 or Principles of Accounting I Concentration Courses (Lodging & Tourism) - Choose two courses from the list in Semester 1. Credits Semester 5 SPRING HOST 203 Hospitality Operations Cost Control HOST 209 Managerial Accounting for Hospitality Operations HOST 221 Internship I	15
HOST 220 Experiential Travel HOST 239 Introduction to Hotel Management Credits Semester 2 SPRING Area IV: Social/Behavioral Sciences ECON 1110G Survey of Economics Area V: Humanities PHIL 1115G Introduction to Philosophy BMGT 240 Human Relations OATS 215 Spreadsheet Applications Concentration Courses (Lodging & Tourism) - Choose one course from the list in Semester 1. Credits Semester 3 SUMMER General Education Elective - Choose one course from the NM General Education Requirements in the NMSU/DACC Catalog. Credits Semester 4 FALL BLAW 2110 Business Law I HOST 208 Hospitality Supervision OATS 120 Accounting Procedures I or ACCT 2110 or Principles of Accounting I Concentration Courses (Lodging & Tourism) - Choose two courses from the list in Semester 1. Credits Semester 5 SPRING HOST 203 Hospitality Operations Cost Control HOST 209 Managerial Accounting for Hospitality Operations	15
HOST 220 Experiential Travel HOST 239 Introduction to Hotel Management Credits Semester 2 SPRING Area IV: Social/Behavioral Sciences ECON 1110G Survey of Economics Area V: Humanities PHIL 1115G Introduction to Philosophy BMGT 240 Human Relations OATS 215 Spreadsheet Applications Concentration Courses (Lodging & Tourism) - Choose one course from the list in Semester 1. Credits Semester 3 SUMMER General Education Elective - Choose one course from the NM General Education Requirements in the NMSU/DACC Catalog. Credits Semester 4 FALL BLAW 2110 Business Law I HOST 208 Hospitality Supervision OATS 120 Accounting Procedures I or ACCT 2110 or Principles of Accounting I Concentration Courses (Lodging & Tourism) - Choose two courses from the list in Semester 1. Credits Semester 5 SPRING HOST 203 Hospitality Operations Cost Control HOST 209 Managerial Accounting for Hospitality	15
HOST 220 Experiential Travel HOST 239 Introduction to Hotel Management Credits Semester 2 SPRING Area IV: Social/Behavioral Sciences ECON 1110G Survey of Economics Area V: Humanities PHIL 1115G Introduction to Philosophy BMGT 240 Human Relations OATS 215 Spreadsheet Applications Concentration Courses (Lodging & Tourism) - Choose one course from the list in Semester 1. Credits Semester 3 SUMMER General Education Elective - Choose one course from the NM General Education Requirements in the NMSU/DACC Catalog. Credits Semester 4 FALL BLAW 2110 Business Law I HOST 208 Hospitality Supervision OATS 120 or ACCT 2110 or Principles of Accounting I Concentration Courses (Lodging & Tourism) - Choose two courses from the list in Semester 1. Credits Semester 5 SPRING HOST 203 Hospitality Operations Cost Control	1:
HOST 220 Experiential Travel HOST 239 Introduction to Hotel Management Credits Semester 2 SPRING Area IV. Social/Behavioral Sciences ECON 1110G Survey of Economics Area V. Humanities PHIL 1115G Introduction to Philosophy BMGT 240 Human Relations OATS 215 Spreadsheet Applications Concentration Courses (Lodging & Tourism) - Choose one course from the list in Semester 1. Credits Semester 3 SUMMER General Education Elective - Choose one course from the NM General Education Requirements in the NMSU/DACC Catalog. Credits Semester 4 FALL BLAW 2110 Business Law I HOST 208 Hospitality Supervision OATS 120 Accounting Procedures I or ACCT 2110 or Principles of Accounting I Concentration Courses (Lodging & Tourism) - Choose two courses from the list in Semester 1. Credits Semester 5 SPRING	1:
HOST 220 Experiential Travel HOST 239 Introduction to Hotel Management Credits Semester 2 SPRING Area IV: Social/Behavioral Sciences ECON 11106 Survey of Economics Area V: Humanities PHIL 1115G Introduction to Philosophy BMGT 240 Human Relations OATS 215 Spreadsheet Applications Concentration Courses (Lodging & Tourism) - Choose one course from the list in Semester 1. Credits Semester 3 SUMMER General Education Elective - Choose one course from the NM General Education Requirements in the NMSU/DACC Catalog. Credits Semester 4 FALL BLAW 2110 Business Law I HOST 208 Hospitality Supervision OATS 120 Accounting Procedures I or ACCT 2110 or Principles of Accounting I Concentration Courses (Lodging & Tourism) - Choose two courses from the list in Semester 1. Credits Semester 5	
HOST 220 Experiential Travel HOST 239 Introduction to Hotel Management Credits Semester 2 SPRING Area IV: Social/Behavioral Sciences ECON 1110G Survey of Economics Area V: Humanities PHIL 1115G Introduction to Philosophy BMGT 240 Human Relations OATS 215 Spreadsheet Applications Concentration Courses (Lodging & Tourism) - Choose one course from the list in Semester 1. Credits Semester 3 SUMMER General Education Elective - Choose one course from the NM General Education Requirements in the NMSU/DACC Catalog. Credits Semester 4 FALL BLAW 2110 Business Law I HOST 208 Hospitality Supervision OATS 120 Accounting Procedures I or ACCT 2110 or Principles of Accounting I Concentration Courses (Lodging & Tourism) - Choose two courses from the list in Semester 1.	
HOST 220 Experiential Travel HOST 239 Introduction to Hotel Management Credits Semester 2 SPRING Area IV: Social/Behavioral Sciences ECON 1110G Survey of Economics Area V: Humanities PHIL 1115G Introduction to Philosophy BMGT 240 Human Relations OATS 215 Spreadsheet Applications Concentration Courses (Lodging & Tourism) - Choose one course from the list in Semester 1. Credits Semester 3 SUMMER General Education Elective - Choose one course from the NM General Education Requirements in the NMSU/DACC Catalog. Credits Semester 4 FALL BLAW 2110 Business Law I HOST 208 Hospitality Supervision OATS 120 Accounting Procedures I	
HOST 220 Experiential Travel HOST 239 Introduction to Hotel Management Credits Semester 2 SPRING Area IV: Social/Behavioral Sciences ECON 1110G Survey of Economics Area V: Humanities PHIL 1115G Introduction to Philosophy BMGT 240 Human Relations OATS 215 Spreadsheet Applications Concentration Courses (Lodging & Tourism) - Choose one course from the list in Semester 1. Credits Semester 3 SUMMER General Education Elective - Choose one course from the NM General Education Requirements in the NMSU/DACC Catalog. Credits Semester 4 FALL BLAW 2110 Business Law I HOST 208 Hospitality Supervision	
HOST 220 Experiential Travel HOST 239 Introduction to Hotel Management Credits Semester 2 SPRING Area IV: Social/Behavioral Sciences ECON 1110G Survey of Economics Area V: Humanities PHIL 1115G Introduction to Philosophy BMGT 240 Human Relations OATS 215 Spreadsheet Applications Concentration Courses (Lodging & Tourism) - Choose one course from the list in Semester 1. Credits Semester 3 SUMMER General Education Elective - Choose one course from the NM General Education Requirements in the NMSU/DACC Catalog. Credits Semester 4 FALL BLAW 2110 Business Law I	
HOST 220 Experiential Travel HOST 239 Introduction to Hotel Management Credits Semester 2 SPRING Area IV: Social/Behavioral Sciences ECON 1110G Survey of Economics Area V: Humanities PHIL 1115G Introduction to Philosophy BMGT 240 Human Relations OATS 215 Spreadsheet Applications Concentration Courses (Lodging & Tourism) - Choose one course from the list in Semester 1. Credits Semester 3 SUMMER General Education Elective - Choose one course from the NM General Education Requirements in the NMSU/DACC Catalog. Credits Semester 4 FALL	
HOST 220 Experiential Travel HOST 239 Introduction to Hotel Management Credits Semester 2 SPRING Area IV: Social/Behavioral Sciences ECON 1110G Survey of Economics Area V: Humanities PHIL 1115G Introduction to Philosophy BMGT 240 Human Relations OATS 215 Spreadsheet Applications Concentration Courses (Lodging & Tourism) - Choose one course from the list in Semester 1. Credits Semester 3 SUMMER General Education Elective - Choose one course from the NM General Education Requirements in the NMSU/DACC Catalog.	
HOST 220 Experiential Travel HOST 239 Introduction to Hotel Management Credits Semester 2 SPRING Area IV: Social/Behavioral Sciences ECON 1110G Survey of Economics Area V: Humanities PHIL 1115G Introduction to Philosophy BMGT 240 Human Relations OATS 215 Spreadsheet Applications Concentration Courses (Lodging & Tourism) - Choose one course from the list in Semester 1. Credits Semester 3 SUMMER General Education Elective - Choose one course from the NM General	3-
HOST 220 Experiential Travel HOST 239 Introduction to Hotel Management Credits Semester 2 SPRING Area IV: Social/Behavioral Sciences ECON 1110G Survey of Economics Area V: Humanities PHIL 1115G Introduction to Philosophy BMGT 240 Human Relations OATS 215 Spreadsheet Applications Concentration Courses (Lodging & Tourism) - Choose one course from the list in Semester 1. Credits Semester 3	3-
HOST 220 Experiential Travel HOST 239 Introduction to Hotel Management Credits Semester 2 SPRING Area IV: Social/Behavioral Sciences ECON 1110G Survey of Economics Area V: Humanities PHIL 1115G Introduction to Philosophy BMGT 240 Human Relations OATS 215 Spreadsheet Applications Concentration Courses (Lodging & Tourism) - Choose one course from the list in Semester 1.	
HOST 220 Experiential Travel HOST 239 Introduction to Hotel Management Credits Semester 2 SPRING Area IV: Social/Behavioral Sciences ECON 1110G Survey of Economics Area V: Humanities PHIL 1115G Introduction to Philosophy BMGT 240 Human Relations OATS 215 Spreadsheet Applications Concentration Courses (Lodging & Tourism) - Choose one course from	1:
HOST 220 Experiential Travel HOST 239 Introduction to Hotel Management Credits Semester 2 SPRING Area IV: Social/Behavioral Sciences ECON 1110G Survey of Economics Area V: Humanities PHIL 1115G Introduction to Philosophy BMGT 240 Human Relations	
HOST 220 Experiential Travel HOST 239 Introduction to Hotel Management Credits Semester 2 SPRING Area IV: Social/Behavioral Sciences ECON 1110G Survey of Economics Area V: Humanities PHIL 1115G Introduction to Philosophy	
HOST 220 Experiential Travel HOST 239 Introduction to Hotel Management Credits Semester 2 SPRING Area IV: Social/Behavioral Sciences ECON 1110G Survey of Economics Area V: Humanities	
HOST 220 Experiential Travel HOST 239 Introduction to Hotel Management Credits Semester 2 SPRING Area IV: Social/Behavioral Sciences ECON 1110G Survey of Economics	
HOST 220 Experiential Travel HOST 239 Introduction to Hotel Management Credits Semester 2 SPRING Area IV: Social/Behavioral Sciences	
HOST 220 Experiential Travel HOST 239 Introduction to Hotel Management Credits Semester 2 SPRING	
HOST 220 Experiential Travel HOST 239 Introduction to Hotel Management Credits Semester 2	
HOST 220 Experiential Travel HOST 239 Introduction to Hotel Management	
HOST 220 Experiential Travel	1
•	
HOST 216 Event, Conference and Convention Operations	
HOST 206 Travel and Tourism Operations	
HOST 205 Housekeeping, Maintenance, and Security	
HOST 204 Promotion of Hospitality Services	
following: HOST 202 Front Office Operations	

Hospitality Services Management

Associate of Applied Science Degree

Students who earn an associate degree in Hospitality Services
Management will have completed the first two years of the four-year
Hotel, Restaurant and Tourism Management degree offered by the
College of Agricultural, Consumer and Environmental Sciences at NMSU.
Enrollment in upper-division HRTM courses requires admission to the
School of HRTM.

To complete this associate degree, 60 credits are required, including the general education requirements and lower-division HRTM core (or the HOST equivalent listed here). Courses may be taken at any NMSU two-year campus and will apply toward this degree. A minimum cumulative GPA of 2.0 is also required. A minimum of 15 of the total degree credits for the associate's degree must be completed at DACC, or any other NMSU campus.

Hospitality Services Management - Associate of Applied Science (p. 281)

HOST 155. Special Topics

1-3 Credits (1-3)

Specific subjects to be announced in the Schedule of Classes. Restricted to: Community Colleges only.

HOST 201. Introduction to Hospitality Industry 3 Credits (3)

Overview of hospitality industry; organization and operation of lodging, food and beverage, and travel and tourism segments; focus on career opportunities and future trends of hospitality industry. Restricted to: Community College campuses only.

HOST 202. Front Office Operations 3 Credits (3)

Hotel/motel front office procedures detailing flow of business, beginning with reservations and extending to the night audit process. Restricted to: Community College campuses only.

HOST 203. Hospitality Operations Cost Control 3 Credits (3)

Management of Food & Beverage facilities using cost control techniques. Functional training in menu analysis and development with all phases of product flow through a Food & Beverage organization explored. Restricted to: Community Colleges only.

HOST 204. Promotion of Hospitality Services 3 Credits (3)

Organization of hotel marketing functions; developing a marketing plan to sell the varied services of the hotel/motel property. Restricted to: Community College campuses only.

HOST 205. Housekeeping, Maintenance, and Security 3 Credits (3)

Function of housekeeping departments, including personnel, sanitation, maintenance, and materials. A survey of security procedures to include guest protection and internal security of hotel/motel assets. Restricted to: Community College campuses only.

HOST 206. Travel and Tourism Operations 3 Credits (3)

Transportation, wholesale and retail operations, attractions, the traveler, tourism development, and operational characteristics of tourism business. Restricted to: Community College campuses only.

HOST 207. Customer Service for the Hospitality Industry 3 Credits (3)

Concepts of service and the customer, integrating the need for service quality, and the continuing efforts to maximize returns for the operation. Classic service styles as well as more modern service techniques are covered. Students gain in-depth managerial knowledge, planning skills, and hands-on techniques for consistently delivering quality and service in a variety of operations. Restricted to: Community College campuses only.

HOST 208. Hospitality Supervision

3 Credits (3)

Strategies for directing, leading, managing change and resolving conflict. Prepares students to meet expectations of management, guests, employees, and governmental agencies. Restricted to: Community College campuses only.

HOST 209. Managerial Accounting for Hospitality 3 Credits (3)

Prepares students to make effective business decisions based on financial report information; forecasting, budgeting, cost analysis. Restricted to: Community College campuses only.

Prerequisite(s): BOT 120 or ACCT 2110.

HOST 210. Catering and Banquet Operations 3 Credits (3)

Teaches the basics of catering and banquet operations, including computer coordination, planning, set up, service, and completion. Restricted to Community Colleges campuses only.

HOST 214. Purchasing and Kitchen Management 3 Credits (3)

Technical purchasing concepts, product selection, and specifications. Safety and sanitation as they relate to food service establishments. Prepares student for work with HACCP programs. May be repeated up to 3 credits. Restricted to Community Colleges campuses only. **Prerequisite(s):** HOST 203.

HOST 216. Event, Conference and Convention Operations 3 Credits (3)

The ability to successfully plan, organize, arrange, and execute special events is critical to the success of many hospitality organizations. This course gives the student a grounding in the skills necessary to achieve success in this area. A variety of events are discussed and the similarities and differences with conferences and conventions are explored. Students are taught to organize and plan events of varying type and durations. Sales, logistics, and organizing skills are emphasized. Restricted to: Community College campuses only.

HOST 219. Safety, Security and Sanitation in Hospitality Operations 3 Credits (3)

It is the responsibility of the manager to provide appropriate security, sanitation, and safety precautions in hospitality operations. Preparation for internal and external disasters is an important task for the Hospitality Manager. This course uses the National Restaurant Association ServSafe¬ training material. Restricted to: Community College campuses only.

HOST 220. Experiential Travel

1-3 Credits (1-3)

Course provides an opportunity for students to plan, prepare for and experience travel to destinations they might not otherwise have visited. Students experience local culture and peoples. May be repeated up to 9 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): HOST 201 or consent of instructor.

HOST 221. Internship I

1-3 Credits (1-3)

Work experience that directly relates to a student's major field of study that provides the student an opportunity to explore career paths and apply knowledge and theory learned in the classroom. Internships may be paid or unpaid. Students are supervised/evaluated by both the employer and the instructor. May be repeated up to 3 credits. Consent of Instructor required. Restricted to: OEHS,HOST majors.Graded: S/U Grading (S/U, Audit). Restricted to Community Colleges campuses only.

HOST 222. Cooperative Experience II

3 Credits (3)

Continuation of HOST 221. Restricted to majors. Graded: S/U. Restricted to: Community College campuses only. Restricted to HOST majors. **Prerequisite(s):** HOST 221.

HOST 239. Introduction to Hotel Management 3 Credits (3)

This course covers basic management functions in hotels, resorts, Boutique Hotels, Bed & Breakfast establishments, and other lodging operations. All aspects of the operation are covered including guest management, operations, and sales and marketing. Restricted to: Branch campuses only.

HOST 255. Special Topics

3 Credits (3)

Specific subjects to be announced in the Schedule of Classes. May be repeated up to 9 credits. Restricted to Community Colleges campuses only.

HOST 298. Independent Study

1-3 Credits (1-3)

Individual studies directed by consenting faculty with prior approval of department chair. May be repeated for a maximum of 3 credits.

Restricted to: Community College campuses only.

Prerequisite(s): Minimum 3.0 GPA and sophomore standing.

Name: Kim Seifert, Department Chair

Office Location: DAEM 100G

Phone: (575) 527-7518

Website: http://dacc.nmsu.edu/hsm/

Name: Nancy Gonzalez, Teaching Tech

Office Location: DASR 220Q Phone: (575) 528-7412

Hospitality Services Management - Associate of Applied Science

Doña Ana Community College 2020-21 Catalog

(60 credits)

NOTE: Students must earn a final grade of C- or better in all Major Requirements and Approved Electives and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and program specific credits to total at least 60 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix Title Credits

General Education

Select one course from four of the following six content areas for a total of 12-14 credits $^{1\!\!1,2}$

This degree requires courses from Areas I(2), II, III, and IV; students do not need to take an additional courses to complete the General Education requirements.

Total Credits		60
Electives, to bring the	total credits to 60 ⁵	5
HOST 239	Introduction to Hotel Management	
HOST 219	Safety, Security and Sanitation in Hospitality Operations	
HOST 216	Event, Conference and Convention Operations ⁴	
HOST 208	Hospitality Supervision ⁴	
HOST 206	Travel and Tourism Operations	
HOST 204	Promotion of Hospitality Services	
Select a total of 15 cre Advisor.	edits of electives in consultation with a Faculty	15
Approved Electives (1	5 Credits)	
ACCT 2110	Principles of Accounting I	3
HOST 201	Introduction to Hospitality Industry	3
CHEF 234	Culinary Arts Fundamentals II	4
CHEF 233	Culinary Arts Fundamentals I	4
Major Requirement (1	4 Credits)	
SOCI 1110G	Introduction to Sociology ³	3
PSYC 1110G	Introduction to Psychology ³	3
or COMM 1115G	Introduction to Communication	
COMM 1130G	Public Speaking ³	3
Core Requirement (9	3	
or ENGL 2221G	Writing in the Humanities and Social Science	
ENGL 2210G	Professional & Technical Communication ³	3
General Education Ele		
ECON 1110G	Survey of Economics ³	3
Area IV: Social/Behav	ioral Sciences	
GEOL 1110G	Physical Geology ³	
GEOG 1110G	Physical Geography ³	
ASTR 1115G	Introduction Astro (lec+lab) ³	
Select one of the follo		
Area III: Laboratory So		
MATH 1350G	Introduction to Statistics ³	3
Area II: Mathematics		
ENGL 1110G	Composition I ³	
Area I: Communicatio	ns	

- Each course selected must be from a different area and students cannot take multiple courses in the same area.
- See the <u>General Education</u> (p. 52) section of the catalog for a full list of courses.
- Courses are identical to those offered at New Mexico State University Las Cruces (main) Campus.
- Courses are NOT accepted for upper-division credit at NMSU.
- Elective credit may vary based on prerequisites, dual credit, AP credit, and/or certificate coursework. The amount indicated in the requirements list is the amount needed to bring the total to 60 credits and may appear in variable form based on the degree. However students may end up needing to complete more or less on a case-bycase basis and students should discuss elective requirements with their advisor.

NOTES:

In order to complete the Bachelor of Science in HRTM, students are required to take 48 credits of upper division work.

(60 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must earn a final grade of C- or better in all Major Requirements and Approved Electives and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and program specific credits to total at least 60 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course	Title	Credits
Semester 1		
ENGL 1110G	Composition I	4
CHEF 233	Culinary Arts Fundamentals I	4
HOST 201	Introduction to Hospitality Industry	3
Approved Electives - C	Choose ONE from the following:	3
H0ST 204	Promotion of Hospitality Services	
HOST 206	Travel and Tourism Operations	
HOST 208	Hospitality Supervision	
HOST 216	Event, Conference and Convention Operations	
HOST 219	Safety, Security and Sanitation in Hospitality Operations	
HOST 239	Introduction to Hotel Management	
	Credits	14
Semester 2		
ENGL 2210G	Professional & Technical Communication	3
or ENGL 2221G	or Writing in the Humanities and Social Science	
MATH 1350G	Introduction to Statistics	3
Area III: Laboratory Sc	siences - Choose one from the following:	4
ASTR 1115G	Introduction Astro (lec+lab)	
GEOG 1110G	Physical Geography	
GEOL 1110G	Physical Geology	
Approved Electives - C	choose TWO courses from the list in Semester 1.	6
	Credits	16
Semester 3		
ECON 1110G	Survey of Economics	3
SOCI 1110G	Introduction to Sociology	3
ACCT 2110	Principles of Accounting I	3
CHEF 234	Culinary Arts Fundamentals II	4
Approved Elective - Ch	noose ONE course from the list in Semester 1.	3
	Credits	16
Semester 4		
COMM 1115G or COMM 1130G	Introduction to Communication or Public Speaking	3
PSYC 1110G	Introduction to Psychology	3

Approved Electives - Choose THREE courses from the list in Semester 1.	8
Credits	14
Total Credits	60

Nursing

Associate in Nursing Degree

Licensed Practical Nurse Certificate

The Nursing program at DACC affords students the opportunity to become Licensed Practical Nurses or Registered Nurses and members of a respected and rewarding profession. Nursing is a dynamic and exciting discipline offering not only the rewarding experiences of helping others achieve their health care goals, but also enabling the nurse to become a part of the rapidly advancing health delivery system of the future.

Upon completion of all prerequisite courses and acceptance into the nursing program, four semesters of study prepare the new graduate for a career as an entry-level generalist in Licensed Practical Nursing or Registered Nursing. Graduates of the program are eligible to take the NCLEX-PN or NCLEX-RN licensure exams and become licensed Practical Nurses or Registered Nurses anywhere in the United States. Students should note, however, that program completion does not in and of itself guarantee licensure, which is a function of the various state boards of nursing, nor does it guarantee employment.

The DACC nursing program philosophy embraces the concepts of caring, health, and wellness. Faculty assist adult learners with achievement of their maximum educational potential through exposure to a variety of teaching and evaluation methods. Special emphasis is placed upon the nursing process, critical-thinking, evidence-based practice, patient-centered care, teamwork and collaboration, safety, professionalism, nursing informatics, and the evolving teaching-learning process.

Accreditation/Approval 1

The DACC Nursing program is approved for operation by the New Mexico Board of Nursing. Further information may be obtained by contacting the Board directly:

New Mexico Board of Nursing 6301 Indian School Road NE, Suite 710 Albuquerque, NM 87110 Phone: (505) 841-8340

Please refer to the DACC Nursing program website for more information regarding the accreditation and/or approval status of the Nursing program.

Categories of Essential Functions

In order to participate in the Nursing Program, the student must be capable of performing the following:

Observation

- Visually discriminate incremental readings on various medical equipment
- · Visually discriminate between different colored objects
- · Discriminate between various auditory stimuli

- Communicate effectively in English using verbal, nonverbal and written formats
- · Read and interpret the English language without assistance
- Communicate effectively via electronic means, including computers and "smart" devices

Motor

- · Stand for long periods of time
- · Lift 50 pounds
- · Perform patient care procedures with manual dexterity

Intellectual

· Collect, interpret, and integrate information

Special Admission Criteria

As a professional educational program, the Nursing Program is a limitedentry program. To be considered for admission, students are required to successfully complete:

- 1. all prerequisites,
- 2. the designated entrance exam, and
- 3. submitting all materials required for the student selection process.

Information on requirements, transfers, and deadlines for applications are available on the Nursing program website, or by calling (575) 527-7735.

Prior to the first day of classes, each student must submit documentation of the following: current immunizations, TB test, American Heart Association CPR for Healthcare Providers, background clearance for Healthcare Providers and drug screening. Additional information regarding specific requirements is available from the Nursing Program office.

Nursing Program Prerequisites

Prior to applying to the Nursing Program, students must be admitted to DACC. Students are also responsible for understanding all of the information in the related-requirement science courses of Anatomy and Physiology I and II, regardless of when these courses were taken. In the event that they were taken more than seven years prior to admission to the Nursing program, these courses must be repeated for credit.

Security Background Check

Prospective students are required to complete and pass a security background check in order to take clinical courses. Past criminal violations may prevent a student from completing the degree and gaining a nursing license or employment in the field.

Requirements to Remain in the Nursing Program

In order to remain in the program, students must receive a C or better in each technical course attempted.

Course Fees

In addition to tuition, a fee of \$250 is charged for each of the following courses:

Prefix	Title	Credits
NURS 136	Foundations of Nursing Practice	6
NURS 147	Adult Health I	6
NURS 226	Adult Health II	6
NURS 236	Nursing Preceptorship - Adult Health III	6

Nursing - Associate in Nursing (p. 285)

Licensed Practical Nurse - Certificate (p. 286)

NURS 130. Foundations of Pharmacology 3 Credits (3)

This course provides the nursing student with an introduction to the foundations of pharmacology including: science of drug action, principles of medication administration, accurate calculation of drug doses, medication therapy across the lifespan, application of medications to treat health alterations, normal and adverse responses by the client to medication therapy, medication safety, medication regulation, national patient safety goals, and appropriate nursing interventions to achieve the desired goals of medication therapy. Only students who have been admitted to the nursing program may enroll in this course. Students must be admitted into the Nursing Program to enroll in this course. Restricted to: Community Colleges only.

Corequisite(s): NURS 147 & NURS 149. Restricted to: NUR majors.

NURS 134. Foundation of Nursing Skills and Assessment 3 Credits (1+6P)

This course provides nursing students with introductory nursing knowledge related to performance of nursing skills and assessment including: techniques of fundamental nursing care, basic and intermediate nursing skills, and foundational physical assessment techniques associated with care across the lifespan. Open to students who have been accepted into the nursing program. Students must be admitted into the Nursing Program to enroll in this course. Restricted to: NUR majors. Restricted to: Community Colleges only.

Corequisite(s): NURS 136 & NURS 137 or permission of the Program Director.

NURS 136. Foundations of Nursing Practice 6 Credits (4+6P)

This course will introduce the nursing student to foundational theoretical concepts of professional nursing practice, the nursing process, and foundational nursing skills. It includes developmental concepts related to clients across the lifespan. Clinical experiences in the simulation lab, long-term care, the community, and rehabilitation settings will provide the student with the opportunity to apply learned skills to provide total care to meet needs of one adult client and to develop care planning skills related to actual problems. Students must be concurrently enrolled in both the lecture and lab sections of the course. Only students who have been admitted to the nursing program may enroll in this course. Students must be admitted into the Nursing Program to enroll in this course. Restricted to: NUR majors. Restricted to: Community Colleges only. Corequisite(s): NURS 134, NURS 137.

NURS 137. Care of Geriatric Patient 3 Credits (3)

This course will introduce the nursing student to foundational concepts of age-appropriate/specific care of the older adult who represents the largest population of individuals placing demands on the healthcare system. It includes basic and complex concepts and issues related to care of the older client across the care continuum, provision of cost-effective care in a resource sparse environment. Only students who have been admitted to the nursing program may enroll in this course. Students must be admitted into the nursing program to enroll in this course. Restricted to: NURS majors. Restricted to Community Colleges campuses only.

Corequisite(s): NURS 134 & NURS 136.

NURS 147. Adult Health I 6 Credits (4+6P)

This course focuses on application of the nursing process and theoretical concepts of care for adults with commonly occurring health problems. Selected clinical learning experiences in the simulation lab, acute care, and community settings will allow the student to continue development of: prioritization skills, proficiency in performance of nursing skills, collaborative skills with clients, families, peers and health care team members, care planning skills related to patient actual, psychosocial, and potential problems in the delivery of total nursing care to meet needs of one adult client. Students must be concurrently enrolled in both the lecture and lab sections of the course. Only students who have been admitted to the nursing program may enroll in this course. Students must be admitted into the Nursing Program to enroll in this course. Restricted to: NUR majors. Restricted to Community Colleges campuses only.

Corequisite(s): NURS 130, NURS 147 lab, & NURS 149.

NURS 149. Mental Health Nursing 3 Credits (2+3P)

This course will allow the nursing student to develop skills necessary to provide nursing care for clients with mental health problems in various health care settings including: common mental health disorders, psychosocial dysfunction, psychosocial safety/substance abuse issues, violence, suicide, restraints, developmental age related pathophysiology, psychopharmacology, cultural/religious considerations, grief/loss, promotion of mental health, and therapeutic communication. Selected clinical learning experiences in the simulation lab, acute care, and community settings will allow the student to develop ability to develop: proficiency in performance of nursing skills, collaborative skills with clients, families, peers and health care team members, care planning skills related to patient actual, psychosocial, and potential problems in the delivery of total nursing care to meet needs of one client across the life span with acute/chronic mental health needs. Students must be concurrently enrolled in both the lecture and lab sections of this course. Only students who have been admitted to the nursing program may enroll in this course. Students must be admitted into the Nursing Program in order to enroll in the course. Restricted to: NUR majors. Restricted to: Community Colleges only.

Corequisite(s): NURS 130, NURS 147, & NURS 149L.

NURS 201. Special Topics

1-4 Credits

Specific topics to be announced in the Schedule of Classes. May be repeated for a maximum of 10 credits. Restricted to: Community Colleges only

Prerequisite: admission to the nursing program.

NURS 224. Maternal Child Nursing 5 Credits (4+3P)

This course provides the intermediate nursing student with an in-depth review of care of the childbearing woman, family structures and roles, and nursing care of the child from birth through adolescence. Emphasis includes the care of pre-partum, intra-partum and postpartum clients, the neonate and health deviations in pediatric clients. Clinical experiences in the simulation lab, the community, and acute care settings will provide the student with the opportunity to apply learned skills to provide total care to meet needs of up to two adult, neonatal, or pediatric clients and to apply care planning skills related to actual, psychosocial and potential problems. Students must be concurrently enrolled in both the lecture and lab sections of the course. Only students who have been admitted to the nursing program may enroll in this course. Students must be admitted into the Nursing Program to enroll in this course. Restricted to: NUR majors. Restricted to: Community Colleges only.

Corequisite(s): NURS 235, & NURS 236.

NURS 226. Adult Health II 6 Credits (4+6P)

This course focuses on application of nursing process and theoretical concepts of care for adults with complex health alterations. Selected clinical learning experiences in the simulation lab, acute care, and community settings will allow the student to apply: prioritization skills, maintain proficiency in performance of nursing skills, collaborative skills with clients, families, peers and health care team members, and care planning skills related to patient actual, psychosocial, and potential problems in the delivery of nursing care to meet needs of three adult clients. Students must be concurrently enrolled in both the lecture and lab sections of the course. Only students who have been admitted to the nursing program may enroll in this course. Students must be admitted into the Nursing Program to enroll in this course. Restricted to: NUR majors. Restricted to: Community Colleges only.

NURS 235. Nursing Leadership and Management 1 Credit (1)

Corequisite(s): NURS 224 & NURS 235.

This course introduces the intermediate nursing student to professional practice principles of nursing leadership and management including: health policy and politics, fiscal management & budgeting, conflict management, decision making, interdisciplinary practice, working with teams, roles in disaster planning and management, application of standards of care to risk management, organization of care delivery, health care systems, processes, and practice environments. May be repeated up to 1 credits. Students must be admitted into the Nursing Program to enroll in this course. Restricted to: NUR majors. Restricted to Community Colleges campuses only.

Corequisite(s): NURS 224, NURS 226.

NURS 236. Nursing Preceptorship - Adult Health III 6 Credits (2+12P)

This course is the final course involving care of the patient with acute or chronic illness. It focuses on care of patients with complex or multisystem problems allowing the graduating nursing student to discuss and apply all the skills learned in previous nursing courses. After successfully passing the HESI exam, students have clinical practice with preceptor in various health care settings. Selected clinical learning experiences in the simulation lab, acute care, and community settings will allow the student to: organize care of a group of clients, maintain proficiency in performance of nursing skills, collaborate with clients, families, peers and health care team members, and support care planning skills related to patient actual, psychosocial, and potential problems in the delivery of nursing care to meet needs of the preceptors group of clients. Students must be concurrently enrolled in both the lecture and lab sections of the course. Only students who have been admitted to the nursing program and have successfully completed all level 1, 2 and 3 nursing courses may enroll in this course. Clinical may include inpatient or outpatient care, days, evenings, nights, or weekend experiences. Students are required to work the preceptors assigned schedule. NCLEX Review must be done concurrently. Students must be admitted into the Nursing Program to enroll in this course. Restricted to: NUR majors. Restricted to: Community Colleges only.

Corequisite(s): NURS 201.

Name: Cynthia Olivas, Interim Program Director

Office Location: DAHL 191C Phone: (575) 528-7209

Website: https://dacc.nmsu.edu/nurs/

Nursing - Associate in Nursing Doña Ana Community College 2020-21 Catalog

(69 credits)

Four additional courses (15 credits) beyond the LPN program are required to complete the ADN program. Students must pass a RN exit exam selected by the faculty to qualify for the Associate Degree in Nursing.

NOTE: Students must earn a final grade of C+ or better in all required courses/Technical Requirements and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 69 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix Title Credits

12-14

General Education

Select one course from four of the following six content areas for a total of 12-14 credits ^{1, 2}

This degree requires courses from Areas I, II, III, and IV; students do not need to take additional courses to complete the General Education requirements.

Area I: Communications

ENGL 1110G Composition I 3

Area II: Mathema	atics	
MATH 1220G	College Algebra	
Area III: Laborato	ory Sciences	
CHEM 1120G	Introduction to Chemistry Lecture and Laboratory (non majors) ³	
Area IV: Social/B	ehavioral Sciences	
PSYC 1110G	Introduction to Psychology ³	
General Education El	ective	
CEPY 1120G	Human Growth and Behavior ³	3
Core Requirements		
BIOL 2210 & BIOL 2225	Human Anatomy and Physiology I for the Health Sciences and Human Anatomy and Physiology II ³	8
Major Requirements		
Common Technical R	Pequirements	
NURS 130	Foundations of Pharmacology	3
NURS 134	Foundation of Nursing Skills and Assessment	3
NURS 136	Foundations of Nursing Practice	6
NURS 137	Care of Geriatric Patient	3
NURS 147	Adult Health I	6
NURS 149	Mental Health Nursing	3
NURS 224	Maternal Child Nursing	5
Additional Technical	Requirements	
NURS 201	Special Topics (NCLEX RN Review)	2
NURS 226	Adult Health II	6
NURS 235	Nursing Leadership and Management	1
NURS 236	Nursing Preceptorship - Adult Health III	6
Total Credits		69

- Each course selected must be from a different area and students cannot take multiple courses in the same area.
- See the <u>General Education</u> (p. 52) section of the catalog for a full list of courses.
- Courses are identical to those offered at New Mexico State University Las Cruces (main) Campus.

(69 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must earn a final grade of C+ or better in all required courses/Technical Requirements and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 69 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course	Title	Credits
Semester 1		
Area I: Communications - English Composition Level 1		4
ENGL 1110G	Composition I	

Area II: Mathematics		3
MATH 1220G	College Algebra	3
Area III: Laboratory Sci	<u> </u>	4
CHEM 1120G	Introduction to Chemistry Lecture and	7
CHEW 1120G	Laboratory (non majors)	
General Education Elec	ctive - Area IV: Social Behavioral Sciences	3
CEPY 1120G	Human Growth and Behavior	
BIOL 2210	Human Anatomy and Physiology I for the Health Sciences	4
	Credits	18
Semester 2		
LEVEL ONE		
Area IV: Social/Behavio	oral Sciences	3
PSYC 1110G	Introduction to Psychology	
BIOL 2225	Human Anatomy and Physiology II	4
NURS 134	Foundation of Nursing Skills and Assessment	3
NURS 136	Foundations of Nursing Practice	6
	Credits	16
Semester 3		
LEVEL TWO		
NURS 130	Foundations of Pharmacology	3
NURS 137	Care of Geriatric Patient	3
NURS 147	Adult Health I	6
NURS 149	Mental Health Nursing	3
	Credits	15
Semester 4		
LEVEL THREE		
NURS 224	Maternal Child Nursing	5
NURS 226	Adult Health II	6
NURS 235	Nursing Leadership and Management	1
LPN Exit HESI Exam		
	Credits	12
Semester 5		
LEVEL FOUR		
NURS 201	Special Topics	2
Special Topics - NC	LEX RN Review	
NURS 236	Nursing Preceptorship - Adult Health III	6
RN Exit HESI		
	Credits	8
	Total Credits	69

Licensed Practical Nurse - Certificate Doña Ana Community College 2020-21 Catalog

(54 credits)

This certificate program provides an option for those desiring to begin working as licensed practical nurses before finishing the Associate Degree Nursing Program (ADN) program. The certificate curriculum consists of the first two semesters of the ADN program and NURS 224 Maternal Child Nursing. Students must pass a PN exit exam selected by the faculty to qualify for the LPN certificate.

NOTE: Students must earn a final grade of C+ or better in all required courses/Technical Requirements and achieve a cumulative grade-point

average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University certificate requirements, which include: General Education requirements and elective credits to total at least 54 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
Core Requirements		
ENGL 1110G	Composition I ¹	4
PSYC 1110G	Introduction to Psychology ¹	3
Related Requirement	ts	
MATH 1220G	College Algebra	3
CEPY 1120G	Human Growth and Behavior ¹	3
BIOL 2210 & BIOL 2225	Human Anatomy and Physiology I for the Health Sciences and Human Anatomy and Physiology II	8
CHEM 1120G	Introduction to Chemistry Lecture and Laboratory (non majors) ¹	4
Common Technical F	Requirements	
NURS 130	Foundations of Pharmacology	3
NURS 134	Foundation of Nursing Skills and Assessment	3
NURS 136	Foundations of Nursing Practice	6
NURS 137	Care of Geriatric Patient	3
NURS 147	Adult Health I	6
NURS 149	Mental Health Nursing	3
NURS 224	Maternal Child Nursing	5
Total Credits		54

Courses are identical to those offered at New Mexico State University Las Cruces (main) Campus.

(54 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must earn a final grade of C+ or better in all required courses/Technical Requirements and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University certificate requirements, which include: General Education requirements and elective credits to total at least 54 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course	Title	Credits
Semester 1		
Area I: Communica	tions - English Composition Level 1	4
ENGL 1110G	Composition I	
Area II: Mathematic	es	3
MATH 1220G	College Algebra	
Area III: Laboratory Sciences		4

CHEM 1120G	Introduction to Chemistry Lecture and Laboratory (non majors)	
Area IV: Social/Beha	vioral Sciences	3
CEPY 1120G	Human Growth and Behavior	
BIOL 2210	Human Anatomy and Physiology I for the Health Sciences	4
	Credits	18
Semester 2		
LEVEL ONE		
Area IV: Social/Beha	vioral Sciences	3
PSYC 1110G	Introduction to Psychology	
BIOL 2225	Human Anatomy and Physiology II	4
NURS 134	Foundation of Nursing Skills and Assessment	3
NURS 136	Foundations of Nursing Practice	6
	Credits	16
Semester 3		
LEVEL TWO		
NURS 130	Foundations of Pharmacology	3
NURS 137	Care of Geriatric Patient	3
NURS 147	Adult Health I	6
NURS 149	Mental Health Nursing	3
	Credits	15
Semester 4		
LEVEL THREE		
NURS 224	Maternal Child Nursing	5
LPN Exit HESI Exam		
	Credits	5
	Total Credits	54

Office Administration Technology

Associate of Applied Science Degree

- · Administrative Assistant Concentration
- · Bookkeeping Assistant Concentration
- · Medical Office Assistant Concentration

Certificate of Completion

- Bilingual Office Specialist Option
- · General Office Assistant Option

Because today's business world is constantly being transformed by new information processing technologies, employment opportunities in office careers are on the rise. The smooth functioning of today's automated office depends on the support of well-trained administrative, bookkeeping, and medical office assistants.

If you find satisfaction in working as a team member, are well organized, and enjoy meeting and helping new people, Office Administration Technology could be the right program for you. Students may obtain a general office assistant certificate of completion in as little as one year and then begin earning money while studying for their associate of applied science degree.

In the second year of the associate of applied science degree program in Office Administration Technology, you can prepare for a more challenging position as either a general administrative assistant, bookkeeping assistant, or medical office assistant. You will learn to use state-of-

the-art technology, become familiar with various up-to-date software applications, and become proficient in a specific area of study.

The work settings where program graduates find employment are as varied as the organizations themselves. They include educational institutions; federal, state, and local government offices; medical facilities; financial institutions; corporate settings; and small and large businesses. Not only are the work settings varied, but so are the positions within each organization. Current salary ranges can be found in the Occupational Outlook Handbook at the U.S. Department of Labor web site: http://www.bls.gov.

Office Administration Technology Certificates

Two Office Administration Technology certificate options are available. The General Office Administration Technology option prepares students for receptionist, clerk-typist, or other entry-level positions. The Bilingual Office Specialist option qualifies students for positions requiring Spanish-English language proficiency. Also available are 18-credit specialized certificates in Medical Billing and Medical Transcription. Coursework for the certificates are applicable toward the Office Administration Technology and/or Health Information Technology associate of applied science degrees with the exception of the OATS 170 Office Communications in Spanish I and OATS 171 Office Communications in Spanish II courses.

Office Administration Technology (Administrative Assistant) - Associate of Applied Science (p. 290)

Office Administration Technology (Bookkeeping Assistant) - Associate of Applied Science (p. 292)

Office Administration Technology (Medical Office Assistant) - Associate of Applied Science (p. 293)

Office Administration Technology - Certificate (p. 295)

Medical Billing - Certificate (p. 296)

Medical Transcription - Certificate (p. 297)

BOT 298. Independent Study

1-3 Credits

Individual studies directed by consenting faculty with prior approval of department head. May be repeated for a maximum of 3 credits. **Prerequisite:** sophomore standing with 3.0 GPA.

OATS 101. Keyboarding Basics

3 Credits (2+2P)

Covers the skills necessary to touch type on the computer keyboard using correct techniques. This includes the development of speed, accuracy, and formatting of basic business documents. May be repeated up to 3 credits. Restricted to Community Colleges campuses

OATS 102. Keyboarding: Document Formatting 3 Credits (2+2P)

Designed to improve keyboarding speed and accuracy; introduce formats of letters, tables and reports. A speed and accuracy competency requirement must be met.

Prerequisite: OATS 101 or consent of instructor.

OATS 105. Business English

3 Credits (3)

Training and application of the fundamentals of basic grammar, capitalization, punctuation, basic writing, sentence structure, and editing skills. May be repeated up to 3 credits. Restricted to Community Colleges campuses

OATS 106. Business Mathematics

3 Credits (2+2P)

Mathematical applications for business. May be repeated up to 3 credits. Restricted to Community Colleges campuses

Prerequisite(s): CCDM 103 N or adequate score on math placement

OATS 110. Records Management

3 Credits (3)

Principles, methods and procedures for the selection, operation and control of manual and automated records systems.

OATS 120. Accounting Procedures I

3 Credits (2+2P)

Business accounting principles and procedures. Use of special journals, cash control, and merchandising concepts. Reports for sole proprietorships.

OATS 121. Accounting Procedures II

3 Credits (2+2P)

Continuation of OATS 120, emphasizing accounting principles and procedures for notes and interest, depreciation, partnerships and corporations, cash flow and financial statement analysis. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): OATS 120 or ACCT 2110.

OATS 140. Payroll Accounting

3 Credits (2+2P)

Payroll procedures including payroll tax forms and deposits. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): ACCT 2110 or OATS 120.

OATS 150. Medical Terminology

3 Credits (3)

Understanding of the basic elements of medical words. Use of medical abbreviations. Same as NURS 150 and OEHO 120. May be repeated up to 3 credits. Crosslisted with: NURS 150, AHS 120 and HIT 150. Restricted to Community Colleges campuses only.

OATS 169. Spanish Grammar for Business Administration 3 Credits (3)

Introductory course in Spanish grammar and practical business terms required for the proper application of fundamental oral and written business communication skills for Spanish speakers in the field of business administration. Restricted to Community Colleges campuses only.

Prerequisite(s): Spanish-speaking ability and computer keyboarding ability.

OATS 170. Office Communications in Spanish I 3 Credits (3)

Develop oral and written communications skills of native or near-native speakers of Spanish. The student will learn basic letter writing skills, customer service techniques, and telephone etiquette in Spanish. Spanish speaking ability is required to enroll in this course. May be repeated up to 3 credits. Consent of Instructor required. Restricted to Community Colleges campuses

OATS 171. Office Communications in Spanish II 3 Credits (3)

Develop oral and written communications skills of native or nearnative speakers of Spanish. Emphasis placed on learning the office assistant's role within the office environment. Compose complex business correspondence and learn to make international travel arrangements. May be repeated up to 3 credits. Consent of Instructor required. Restricted to Community Colleges campuses

Prerequisite(s): OATS 170, Spanish speaking ability.

OATS 191. Taking Minutes & Proofreading 3 Credits (3)

Preparation and practice producing minutes suited for different meeting types and purposes. Provides strategies to prepare for meetings, to record proceedings, and to transcribe minutes while incorporating proofreading skills practice. Topics include legal requirements, meeting types, minute formats, and duties/expectations of the minute taker and the meeting chair. Graded: S/U. May be repeated up to 3 credits. Restricted to Community Colleges campuses

OATS 202. Keyboarding Document Production 3 Credits (2+2P)

Further development of keyboarding speed and accuracy. Production of complex letters, memos, tables, reports and business forms. A speed and accuracy competency requirement must be met. Restricted to Community Colleges campuses

OATS 203. Office Equipment and Procedures I 3 Credits (2+2P)

Office organization, telephone techniques, equipment and supplies, handling meetings, human relations, mail procedures, and travel. May be repeated up to 3 credits. Restricted to Community Colleges campuses

OATS 205. Accounting Software I 3 Credits (2+2P)

Introduction to accounting software. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): Working knowledge of computers and accounting or consent of instructor.

OATS 206. Accounting Software II 3 Credits (2+2P)

Accounting software and office applications. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): OATS 121 or OATS 215.

OATS 207. Machine Transcription 3 Credits (2+2P)

Creating office documents using transcribing equipment and word processing software. Emphasis on proofreading, editing and grammar. May be repeated up to 3 credits. Restricted to Community Colleges campuses

Prerequisite(s): BOT 105.

OATS 208. Medical Office Procedures 3 Credits (2+2P)

Current computerized and traditional administrative medical office procedures will be introduced. Practical knowledge on managing required record keeping in a medical office environment will be emphasized. May be repeated up to 3 credits. Restricted to Community Colleges campuses **Prerequisite(s)**: HIT 150 or AHS 120, and computer keyboarding ability or consent of instructor.

OATS 209. Business and Technical Communications 3 Credits (3)

Effective written communication skills and techniques for career success in the work place. Composition of letters, memos, short reports, forms, and proposals, and technical descriptions and directions.

Prerequisites: ENGL 1110G and computer keyboarding ability or consent of instructor.

OATS 211. Information Processing I

3 Credits (2+2P)

Defining and applying fundamental information processing concepts and techniques using the current version of leading software. May be repeated up to 6 credits. Restricted to Community Colleges campuses

OATS 213. Word Processing I

3 Credits (2+2P)

Operation and function of a word processor. Specific equipment to be announced in the Schedule of Classes.

Prerequisite: OATS 101 or keyboarding proficiency.

OATS 214. Word Processing II

3 Credits (2+2P)

Advanced operation and functions of a word processor. Specific equipment to be announced in the Schedule of Classes.

Prerequisite: OATS 213 or consent of instructor.

OATS 215. Spreadsheet Applications

1-3 Credits

Use of spreadsheets to include graphics and business applications. Same as OECS 215. May be repeated under different subtitles listed in the Schedule of Classes.

OATS 217. Powerpoint Presentation

3 Credits (3)

Comprehensive, hands-on approach to learning and applying basic and advanced features of PowerPoint. These include text enhancements, objects, fills, colors, animation, charts, sound, video, and hyperlinks. Students demonstrate appropriate audience and communication tools to deliver presentations.

Prerequisites: OATS 211 or ability to demonstrate keyboarding and Windows proficiency.

OATS 218. Information Processing II

3 Credits (2+2P)

Advanced information processing techniques using current version of leading software. May be repeated for a maximum of 6 credits.

Prerequisite: OATS 211 or consent of instructor.

OATS 220. Internship in Business Office Technology 2 Credits (2)

Experience in a supervised office position. Student must work at least eight hours per week. May be repeated for a maximum of 4 credits. **Prerequisites:** sophomore standing and consent of instructor.

OATS 221. Internship I

1-3 Credits

Work experience that directly relates to a student's major field of study that provides the student an opportunity to explore career paths and apply knowledge and theory learned in the classroom. Internships may be paid or unpaid. Students are supervised/evaluated by both the employer and the instructor. C- or better in the course is required. Consent of Instructor required. Restricted to: BOT,HIT. majors. Restricted to Community Colleges campuses

OATS 222. Internship II

1-3 Credits

Continuation of OATS 221. May be repeated up to 6 credits. Consent of Instructor required. Restricted to: OATS & HIT majors. Graded: S/U Grading (S/U, Audit). Restricted to Community Colleges campuses only. **Prerequisite(s):** OATS 221 and consent of instructor.

OATS 223. Medical Transcription I

3 Credits (2+2P)

Concepts in medical transcription are introduced on how to produce a variety of reports required in a medical office or facility utilizing accurate medical terminology, spelling, grammar, and document formatting. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): HIT 150 or AHS 120 and HIT 158 and OATS 209.

OATS 228. Medical Insurance Billing 3 Credits (2+2P)

Comprehensive overview of the insurance concepts and applications required for successfully and accurately completing and submitting insurance claims and reimbursement processes for various insurance carriers, both private and government, will be emphasized. May be repeated up to 3 credits. Restricted to Community Colleges campuses **Prerequisite(s)**: HIT 150 or AHS 120.

OATS 233. Advanced Medical Transcription 3 Credits (2+2P)

Builds upon the concepts introduced in Medical Transcription I providing greater understanding of how to produce advanced reports dictated by physicians with increasing speed and accuracy. Emphasis will be on proofreading and editing of operative reports, patient history and physicals, office notes, labor and delivery reports, consultation reports, discharge summaries, and other medical reports. May be repeated up to 3 credits. Consent of Instructor required. Restricted to Community Colleges campuses only.

Prerequisite(s): OATS 223 and HIT 130.

OATS 239. Personal Development

3 Credits (3)

Development of a marketable, employable office systems person, to include interview, voice, manners, and apparel.

OATS 240. Introduction to Individual Taxation 3 Credits (3)

Overview of Individual Federal Taxation; awareness of tax problems pitfalls and planning opportunities; focus on individual personal financial concerns and tax planning. One semester of accounting principles/procedures is recommended.

OATS 241. Auditing and Business Issues 3 Credits (3)

Introduction to basic auditing concepts, the purpose for the auditing process, and requirements of persons assisting with the audit process. The course will also deal with issues of business law including contracts, sales, torts, strict liability, and business ethics. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): OATS 120 or ACCT 2110.

OATS 244. Tax Preparation

3 Credits (3)

Introduces basic federal and state tax codes for preparing individual income tax returns. Emphasis on use of tax software.

Prerequisite: keyboarding proficiency.

OATS 250. Electronic Office Systems

3 Credits (2+2P)

Management of the electronic office. Office use of computers, printers, fax machines, copiers, and scanner concepts will be covered.

Prerequisite: OATS 211.

OATS 255. Special Topics

1-4 Credits

Specific subjects to be announced in the Schedule of Classes.

OATS 260. Bookkeeping Simulation Capstone 3 Credits (2+2P)

Refines the professional and technical skills students have learned while completing the Bookkeeping Assistant Option curriculum by demonstrating how coursework ties together. Designed as a bookkeeping assistant capstone course.

Prerequisite(s): OATS 121 or ACCT 2110, OATS 140, OATS 205, and OATS 244, or consent of instructor.

OATS 270. Office Administration Technology Capstone 3 Credits (2+2P)

Refines professional skills learned in the BOT program and ties all BOT coursework together. May be repeated up to 3 credits. Consent of Instructor required. Restricted to Community Colleges campuses

Prerequisite(s): OATS 102 or OATS 129; and OATS 120; and OAT S 209 or ENGL 2210G; and OATS 211 or OECS 211.

Name: Jessica Arellano

Office Location: DAEM 1000

Phone: (575) 527-7579

Email:jarellano@dacc.nmsu.edu

Website: https://dacc.nmsu.edu/bot/

Office Administration Technology (Administrative Assistant) -Associate of Applied Science

Doña Ana Community College 2020-21 Catalog

(64-65 credits)

NOTE: Students must earn a final grade of C- or better in all required OATS courses and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 64 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix Title Credits

12-14

General Education

Select one course from four of the following six content areas for a total of 12-14 credits $^{\rm 1,2}$

This degree requires courses from Areas I, IV, V, and VI; students do not need to take additional courses to complete the General Education requirements.

Araa li Camanaini	antion a	
Area I: Communic	Composition I ³	
	ehavioral Sciences	
Choose one from ECON 1110G	Survey of Economics ³	
	Macroeconomic Principles ³	
ECON 2110G	2	
ECON 2120G	Microeconomics Principles ³	
Area V: Humaniti		
Choose one from		
HIST 1110G	United States History I ³	
HIST 1120G	United States History II 3	
HIST 1130G	World History I ³	
HIST 1140G	World History II ³	
HIST 1150G	Western Civilization I 3	
HIST 1160G	Western Civilization II ³	
PHIL 1115G	Introduction to Philosophy ³	
PHIL 1120G	Logic, Reasoning, & Critical Thinking ³	
PHIL 1145G	Philosophy, Law, and Ethics ³	
PHIL 2110G	Introduction to Ethics 3	
PHIL 2230G	Philosophical Thought ³	
Area VI: Creative	and Fine Arts	
Choose one from		
ARTH 1115G	Orientation in Art 3	
ARTS 1145G	Visual Concepts ³	
ARTH 2110G	History of Art I ³	
MUSC 1110G	Music Appreciation: Jazz ³	
MUSC 1130G	Music Appreciation: Western Music ³	
THEA 1110G	Introduction to Theatre ³	
General Education E	lective ²	3-4
Core Requirements		
Related/Professional	Requirements (25-27 credits)	
OATS 102	Keyboarding: Document Formatting	3
OATS 105	Business English	3
OATS 106	Business Mathematics	3
OATS 110	Records Management	3
or HIT 110	Electronic Health Records	
OATS 120	Accounting Procedures I	3
or ACCT 2110	Principles of Accounting I	
OATS 203	Office Equipment and Procedures I	3
OATS 209	Business and Technical Communications	3
OATS/HIT 221	Internship I	3
OATS 239	Personal Development	3
Major Requirements	•	
Concentration Course	ework	
OATS 191	Taking Minutes & Proofreading	3
OATS 202	Keyboarding Document Production	3
OATS 207	Machine Transcription	3
OATS 211	Information Processing I	3
OATS 215	Spreadsheet Applications	3
OATS 217	Powerpoint Presentation	3
OATS 270	Office Administration Technology Capstone	3
Total Credits	3, 1, 4, 4	64-65
. Juli Orcuito		04 00

- Each course selected must be from a different area and students cannot take multiple courses in the same area.
- See the <u>General Education</u> (p. 52) section of the catalog for a full list of courses.

- Courses are identical to those offered at New Mexico State University Las Cruces (main) Campus.
- ⁴ HIT 110 Electronic Health Records should be taken only by those who plan to pursue the Medical Office Assistant option.
- OATS 221 Internship I/HIT 221 Internship I are restricted to majors.

(62-63 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must earn a final grade of C- or better in all required OATS courses and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 62 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course	Title	Credits
Semester 1		
Area VI: Creative and F	ine Arts - Choose one from the following:	3
ARTH 1115G	Orientation in Art	
ARTH 2110G	History of Art I	
ARTS 1145G	Visual Concepts	
MUSC 1110G	Music Appreciation: Jazz	
MUSC 1130G	Music Appreciation: Western Music	
THEA 1110G	Introduction to Theatre	
OATS 102	Keyboarding: Document Formatting	3
OATS 105	Business English	3
OATS 106	Business Mathematics	3
OATS 211	Information Processing I	3
	Credits	15
Semester 2		
Area I: Communication	s - English Composition Level 1	4
ENGL 1110G	Composition I	
OATS 110	Records Management	3
OATS 120 or ACCT 2110	Accounting Procedures I or Principles of Accounting I	3
OATS 191 or OATS 207	Taking Minutes & Proofreading or Machine Transcription	3
OATS 202	Keyboarding Document Production	3
	Credits	16
Semester 3		
SUMMER		
OATS 239	Personal Development	3
	Credits	3
Semester 4		
Area IV: Social/Behavio	oral Sciences	3
ECON 1110G	Survey of Economics	
ECON 2110G	Macroeconomic Principles	
ECON 2120G	Microeconomics Principles	

	Elective - choose one course from the NM General nents in the NMSU/DACC Catalog	3
OATS 203	Office Equipment and Procedures I	3
OATS 209	Business and Technical Communications	3
OATS 217	Powerpoint Presentation	3
	Credits	15
Semester 5		
Area V: Humanities	- Choose one from the following:	3
HIST 1110G	United States History I	
HIST 1120G	United States History II	
HIST 1130G	World History I	
HIST 1140G	World History II	
HIST 1150G	Western Civilization I	
HIST 1160G	Western Civilization II	
PHIL 1115G	Introduction to Philosophy	
PHIL 1120G	Logic, Reasoning, & Critical Thinking	
PHIL 1140G	Quest for God	
PHIL 1145G	Philosophy, Law, and Ethics	
PHIL 2110G	Introduction to Ethics	
PHIL 2230G	Philosophical Thought	
OATS 207 or OATS 191	Machine Transcription or Taking Minutes & Proofreading	3
OATS 215	Spreadsheet Applications	3
OATS 221 or HIT 221	Internship I or Internship I	3
OATS 270	Office Administration Technology Capstone	3
	Credits	15
	Total Credits	64

Office Administration Technology (Bookkeeping Assistant) - Associate of Applied Science

(62-65 credits)

Prefix

NOTE: Students must earn a final grade of C- or better in all required OATS courses and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 62 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Credits

Title

	ICIIX	THE	Gredita
G	eneral Education		
	elect one course from 2-14 credits ^{1, 2}	four of the following six content areas for a total of	12-14
n	J '	ourses from Areas I, IV, V, and VI; students do ional courses to complete the General Education	
	Area I: Communica	tions	
	ENGL 1110G	Composition I ³	
	Area IV: Social/Beh	avioral Sciences	
	Choose one from the	ne following:	
	ECON 1110G	Survey of Economics ³	
	ECON 2110G	Macroeconomic Principles ³	

F001101000		
ECON 2120G	Microeconomics Principles ³	
Area V: Humanitie		
Choose one from	_	
HIST 1110G	United States History I ³	
HIST 1120G	United States History II 3	
HIST 1130G	World History I	
HIST 1140G	World History II ³	
HIST 1150G	Western Civilization I	
HIST 1160G	Western Civilization II ³	
PHIL 1120G	Logic, Reasoning, & Critical Thinking ³	
PHIL 1140G	Quest for God ³	
PHIL 1145G	Philosophy, Law, and Ethics ³	
PHIL 2110G	Introduction to Ethics 3	
PHIL 2230G	Philosophical Thought ³	
Area VI: Creative	and Fine Arts	
Choose one from	the following:	
ARTH 1115G	Orientation in Art ³	
ARTS 1145G	Visual Concepts ³	
ARTH 2110G	History of Art I ³	
MUSC 1110G	Music Appreciation: Jazz ³	
MUSC 1130G	Music Appreciation: Western Music ³	
THEA 1110G	Introduction to Theatre ³	
General Education Ele	ective ²	3-4
Core Requirements		
Related/Professional	Requirements (25-27 credits)	
OATS 102	Keyboarding: Document Formatting	3
OATS 105	Business English	3
OATS 106	Business Mathematics	3
OATS 110	Records Management	3
or HIT 110	Electronic Health Records	
OATS 120	Accounting Procedures I	3
or ACCT 2110	Principles of Accounting I	
OATS 203	Office Equipment and Procedures I	3
OATS 209	Business and Technical Communications	3
OATS/HIT 221	Internship I	3
OATS 239	Personal Development	3
Major Requirements	r crosnar bevelopment	
Concentration Course	work	
OATS 121	Accounting Procedures II	3
OATS 140	Payroll Accounting	3
OATS 205	Accounting Software I	3
OATS 215	Spreadsheet Applications	
	• • • • • • • • • • • • • • • • • • • •	1-3
OATS 241 OATS 244	Auditing and Business Issues	3
	Tax Preparation	3
OATS 260	Bookkeeping Simulation Capstone	3
Total Credits		62-65

- Each course selected must be from a different area and students cannot take multiple courses in the same area.
- See the <u>General Education</u> (p. 52) section of the catalog for a full list of courses.
- Courses are identical to those offered at New Mexico State University Las Cruces (main) Campus.
- HIT 110 Electronic Health Records should be taken only by those who plan to pursue the Medical Office Assistant option.
- OATS 221 Internship I/HIT 221 Internship I are restricted to majors.

Credits

(62-63 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must earn a final grade of C- or better in all required OATS courses and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 62 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

T241.

Course	Title	Credits
Semester 1		
Area I: Communication	ns - English Composition Level 1	4
ENGL 1110G	Composition I	
Area VI: Creative and F	ine Arts - Choose one from the following:	3
ARTH 1115G	Orientation in Art	
ARTH 2110G	History of Art I	
ARTS 1145G	Visual Concepts	
MUSC 1110G	Music Appreciation: Jazz	
MUSC 1130G	Music Appreciation: Western Music	
THEA 1110G	Introduction to Theatre	
OATS 102	Keyboarding: Document Formatting	3
OATS 105	Business English	3
OATS 106	Business Mathematics	3
	Credits	16
Semester 2		
Area IV: Social/Behavio	oral Sciences	3
ECON 1110G	Survey of Economics	
or ECON 2110G	or Macroeconomic Principles	
or ECON 2120G	or Microeconomics Principles	
OATS 110	Records Management	3
or HIT 110	or Electronic Health Records	
OATS 120 or ACCT 2110	Accounting Procedures I	3
OATS 205	or Principles of Accounting I	3
OATS 205	Accounting Software I	
UA15 215	Spreadsheet Applications	3
	Credits	15
Semester 3		
	ctive - Choose one course from the NM General its in the NMSU/DACC Catalog.	3-4
OATS 121	Accounting Procedures II	3
OATS 140	Payroll Accounting	3
OATS 203	Office Equipment and Procedures I	3
OATS 209	Business and Technical Communications	3
	Credits	15-16
Semester 4		
Area V. Humanities - C		_
7 11 CG 71 11 G111 G111 G1 CG CG	hoose one from the following:	3
HIST 1110G	hoose one from the following: United States History I	3

PHOATS	241 244	or Internship I Personal Development Auditing and Business Issues Tax Preparation Bookkeeping Simulation Capstone Credits	3 3 3 3 3
OATS OATS OATS	239 241 244	or Internship I Personal Development Auditing and Business Issues Tax Preparation	3
OATS OATS OATS	239 241	or Internship I Personal Development Auditing and Business Issues	3
PH OATS or OATS	239	or Internship I Personal Development	3
PH OATS or	==.	or Internship I	·
PHOATS	HIT 221	•	1
		Internship I	1
1 1	IIL 2230G	Philosophical Thought	
DH	IIL 2110G	Introduction to Ethics	
PH	IIL 1145G	Philosophy, Law, and Ethics	
PH	IIL 1140G	Quest for God	
PH	IIL 1120G	Logic, Reasoning, & Critical Thinking	
PH	IIL 1115G	Introduction to Philosophy	
HIS	ST 1160G	Western Civilization II	
HIS	ST 1150G	Western Civilization I	
HIS	ST 1140G	World History II	
HIS	ST 1130G	World History I	

Office Administration Technology (Medical Office Assistant) -Associate of Applied Science

Doña Ana Community College 2020-21 Catalog

Title

(62-65 credits)

Prefix

General Education

NOTE: Students must earn a final grade of C- or better in all required OATS and HIT courses and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 62 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Select one course from 12-14 credits ^{1, 2}	m four of the following six content areas for a total of	12-14
	courses from Areas I, IV, V, and VI; students do iitional courses to complete the General Education	
Area I: Communio	cations	
ENGL 1110G	Composition I ³	
Area IV: Social/Be	ehavioral Sciences	
Choose one from	the following:	
ECON 1110G	Survey of Economics ³	
ECON 2110G	Macroeconomic Principles ³	
ECON 2120G	Microeconomics Principles 3	
Area V: Humanitie	es	
Choose one from	the following:	
HIST 1110G	United States History I ³	
HIST 1120G	United States History II ³	
HIST 1130G	World History I ³	

HIST 1140G	World History II ³	
HIST 1150G	Western Civilization I ³	
HIST 1160G	Western Civilization II ³	
PHIL 1115G	Introduction to Philosophy ³	
PHIL 1120G	Logic, Reasoning, & Critical Thinking ³	
PHIL 1140G	Quest for God ³	
PHIL 1145G	Philosophy, Law, and Ethics ³	
PHIL 2110G	Introduction to Ethics 3	
PHIL 2230G	Philosophical Thought ³	
Area VI: Creative	and Fine Arts	
Choose one from	the following:	
ARTH 1115G	Orientation in Art ³	
ARTS 1145G	Visual Concepts ³	
ARTH 2110G	History of Art I ³	
MUSC 1110G	Music Appreciation: Jazz ³	
MUSC 1130G	Music Appreciation: Western Music ³	
THEA 1110G	Introduction to Theatre ³	
General Education Ele	ective ²	3-4
Core Requirements		
Related/Professional	Requirements (25-27 credits)	
OATS 102	Keyboarding: Document Formatting	3
OATS 105	Business English	3
OATS 106	Business Mathematics	3
OATS 110	Records Management	3
or HIT 110	Electronic Health Records	
OATS 120	Accounting Procedures I	3
or ACCT 2110	Principles of Accounting I	
OATS 203	Office Equipment and Procedures I	3
OATS 209	Business and Technical Communications	3
OATS/HIT 221	Internship I	1-3
OATS 239	Personal Development	3
Major Requirements		
Concentration Course	ework	
OATS 208	Medical Office Procedures	3
OATS 211	Information Processing I	3
OATS 223	Medical Transcription I	3
OATS 228	Medical Insurance Billing	3
OATS 270	Office Administration Technology Capstone	3
HIT 150	Introduction to Medical Terminology	3
HIT 158	Advanced Medical Terminology	3
Total Credits		62-65
. Ottal Orcallo		02 00

- Each course selected must be from a different area and students cannot take multiple courses in the same area.
- See the <u>General Education</u> (p. 52) section of the catalog for a full list of courses.
- Courses are identical to those offered at New Mexico State University Las Cruces (main) Campus.
- ⁴ HIT 110 Electronic Health Records should be taken only by those who plan to pursue the Medical Office Assistant option.
- OATS 221 Internship I/HIT 221 Internship I are restricted to majors.

(62-63 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student

academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must earn a final grade of C- or better in all required OATS and HIT courses and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 62 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Title

Course

Credits

Course	ritte	Credits
Semester 1		
Area I: Communication	s - English Composition Level 1	4
ENGL 1110G	Composition I	
Area VI: Creative and F	ine Arts - Choose one from the following:	3
ARTH 1115G	Orientation in Art	
ARTH 2110G	History of Art I	
ARTS 1145G	Visual Concepts	
MUSC 1110G	Music Appreciation: Jazz	
MUSC 1130G	Music Appreciation: Western Music	
THEA 1110G	Introduction to Theatre	
OATS 102	Keyboarding: Document Formatting	3
OATS 105	Business English	3
OATS 106	Business Mathematics	3
	Credits	16
Semester 2		
Area IV: Social/Behavio	oral Sciences	3
ECON 1110G	Survey of Economics	
or ECON 2110G	or Macroeconomic Principles	
or ECON 2120G	or Microeconomics Principles	
HIT 150	Introduction to Medical Terminology	3
OATS 110	Records Management	3
or HIT 110	or Electronic Health Records	
OATS 120 or ACCT 2110	Accounting Procedures I or Principles of Accounting I	3
OATS 211	Information Processing I	3
	Credits	15
Semester 3		
HIT 158	Advanced Medical Terminology	3
OATS 203	Office Equipment and Procedures I	3
OATS 208	Medical Office Procedures	3
OATS 209	Business and Technical Communications	3
OATS 223	Medical Transcription I	3
	Credits	15
Semester 4		
Area V: Humanities - Cl	noose one from the following:	3
HIST 1110G	United States History I	
HIST 1120G	United States History II	
HIST 1130G	World History I	
HIST 1140G	World History II	
HIST 1150G	Western Civilization I	
HIST 1160G	Western Civilization II	
PHIL 1115G	Introduction to Philosophy	
PHIL 1120G	Logic, Reasoning, & Critical Thinking	

PHIL 1140G	Quest for God	
PHIL 1145G	Philosophy, Law, and Ethics	
PHIL 2110G	Introduction to Ethics	
PHIL 2230G	Philosophical Thought	
	Elective - Choose one course from the NM General nents in the NMSU/DACC Catalog.	3-4
OATS 221 or HIT 221	Internship I or Internship I	1
OATS 228	Medical Insurance Billing	3
OATS 239	Personal Development	3
OATS 270	Office Administration Technology Capstone	3
	Credits	16-17
	Total Credits	62-63

Office Administration Technology - Certificate

Doña Ana Community College 2020-21 Catalog

(33 credits)

NOTE: Students who lack prior general office experience may need to take course-related prerequisites.

NOTE: Students must earn a final grade of C- or better in all required OATS and HIT courses and achieve a cumulative grade-point average of at least 2.0.

Students must complete all University certificate requirements to total at least 33 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits	
Technical Requirements (33 credits)			
OATS 102	Keyboarding: Document Formatting	3	
OATS 106	Business Mathematics	3	
OATS 110	Records Management	3	
or HIT 110	Electronic Health Records		
OATS 120	Accounting Procedures I	3	
or ACCT 2110	Principles of Accounting I		
OATS 209	Business and Technical Communications	3	
OATS 211	Information Processing I	3	
BMGT 240	Human Relations	3	
Choose one of the following two options: (12 credits)			
Bilingual Office Spec	ialist or General Office Assistant Options	12	
Total Credits		33	

Bilingual Office Specialist Option

Prefix	Title	Credits
OATS 170	Office Communications in Spanish I	3
OATS 171	Office Communications in Spanish II	3
OATS/HIT 221	Internship I	3
OATS 239	Personal Development	3
Total Credits		12

General Office Assistant Option

Prefix	Title	Credits	
OATS 215	Spreadsheet Applications	3	
OATS/HIT 221	Internship I	3	
OATS 239	Personal Development	3	
Select one from the	e following:	3	
HIT 150	Introduction to Medical Terminology ³		
OATS 203	Office Equipment and Procedures I		
OATS 250	Electronic Office Systems		
Total Credits		12	

- Business English placement test will determine whether OATS 105 Business English is required before taking OATS 110 Records Management.
- HIT 110 Electronic Health Records should be taken only by those who plan to pursue the Medical Office Assistant Option.
- HIT 150 Introduction to Medical Terminology should be taken only by those who plan to pursue the OAT associate of applied science degree with the Medical Office Assistant option and/or Medical Transcription or Medical Billing certificate(s).

Bilingual Office Specialist (33 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must earn a final grade of C- or better in all required OATS and HIT courses and achieve a cumulative grade-point average of at least 2.0.

Students must complete all University certificate requirements to total at least 33 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course	Title	Credits
Semester 1		
BMGT 240	Human Relations	3
OATS 102	Keyboarding: Document Formatting	3
OATS 106	Business Mathematics	3
OATS 110 or HIT 110	Records Management or Electronic Health Records	3
OATS 170	Office Communications in Spanish I	3
	Credits	15
Semester 2		
OATS 120 or ACCT 2110	Accounting Procedures I or Principles of Accounting I	3
OATS 171	Office Communications in Spanish II	3
OATS 209	Business and Technical Communications	3
OATS 211	Information Processing I	3
OATS 239	Personal Development	3
	Credits	15

Semester 3		
OATS 221	Internship I	3
or HIT 221	or Internship I	
	Credits	3
	Total Credits	33

General Office Assistant

Important information about the educational debt, earnings, and completion rates of students who attend this program can be found on the following https://dacc.nmsu.edu/gainfulemployment/.

(33 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must earn a final grade of C- or better in all required OATS and HIT courses and achieve a cumulative grade-point average of at least 2.0.

Students must complete all University certificate requirements to total at least 33 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course	Title	Credits
Semester 1		
BMGT 240	Human Relations	3
OATS 102	Keyboarding: Document Formatting	3
OATS 106	Business Mathematics	3
OATS 110 or HIT 110	Records Management or Electronic Health Records	3
Choose one from the	following:	3
HIT 150	Introduction to Medical Terminology	
OATS 203	Office Equipment and Procedures I	
OATS 250	Electronic Office Systems	
	Credits	15
Semester 2		
OATS 120 or ACCT 2110	Accounting Procedures I or Principles of Accounting I	3
OATS 209	Business and Technical Communications	3
OATS 211	Information Processing I	3
OATS 215	Spreadsheet Applications	3
OATS 239	Personal Development	3
	Credits	15
Semester 3		
OATS 221 or HIT 221	Internship I or Internship I	3
	Credits	3
	Total Credits	33

Medical Billing Certificate

Doña Ana Community College 2020-21 Catalog

(18 credits)

NOTE: Students who lack prior health and/or general office experience may need to take course-related prerequisites.

NOTE: Students must earn a final grade of C- or better in all required OATS and HIT courses/Technical Requirements and achieve a cumulative grade-point average of at least 2.0.

Students must complete all University certificate requirements to total at least 18 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
Technical Requirem	nents (18 credits)	
HIT 150	Introduction to Medical Terminology	3
or AHS 120	Medical Terminology	
HIT 158	Advanced Medical Terminology	3
HIT 248	Medical Coding I	3
HIT 258	Medical Coding II	3
OATS 208	Medical Office Procedures	3
OATS 228	Medical Insurance Billing	3
Total Credits		18

(18 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must earn a final grade of C- or better in all required OATS and HIT courses/Technical Requirements and achieve a cumulative grade-point average of at least 2.0.

Students must complete all University certificate requirements to total at least 18 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course	Title	Credits
Semester 1		
HIT 150 or AHS 120	Introduction to Medical Terminology or Medical Terminology	3
OATS 208	Medical Office Procedures	3
	Credits	6
Semester 2		
HIT 158	Advanced Medical Terminology	3
OATS 228	Medical Insurance Billing	3
	Credits	6
Semester 3		
HIT 248	Medical Coding I	3
	Credits	3

Semester 4		
HIT 258	Medical Coding II	3
	Credits	3
	Total Credits	18

Medical Transcription Certificate Doña Ana Community College 2020-21 Catalog

(18 credits)

NOTE: Students who lack prior health and/or general office experience may need to take course-related prerequisites.

NOTE: Students must earn a final grade of C- or better in all required OATS and HIT courses/Technical Requirements and achieve a cumulative grade-point average of at least 2.0.

Students must complete all University certificate requirements to total at least 18 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
Technical Requiren	nents (18 credits)	
HIT 150	Introduction to Medical Terminology	3
or AHS 120	Medical Terminology	
HIT 158	Advanced Medical Terminology	3
OATS 207	Machine Transcription	3
OATS 208	Medical Office Procedures	3
OATS 223	Medical Transcription I	3
OATS 233	Advanced Medical Transcription	3
Total Credits		18

(18 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must earn a final grade of C- or better in all required OATS and HIT courses/Technical Requirements and achieve a cumulative grade-point average of at least 2.0.

Students must complete all University certificate requirements to total at least 18 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course	Title	Credits
Semester 1		
HIT 150 or AHS 120	Introduction to Medical Terminology or Medical Terminology	3
OATS 208	Medical Office Procedures	3
	Credits	6
Semester 2		
HIT 158	Advanced Medical Terminology	3

OATS 207	Machine Transcription	3
	Credits	6
Semester 3		
OATS 223	Medical Transcription I	3
	Credits	3
Semester 4		
OATS 233	Advanced Medical Transcription	3
	Credits	3
	Total Credits	18

Pre-Business

Associate Degree: Pre-Business

NOTE: The DACC Pre-Business program is also described in the *NMSU Undergraduate Catalog*.

The associate of pre-business degree is roughly equivalent to the first 60 credit hours of any bachelor's degree program offered through the College of Business Administration and Economics at NMSU. The DACC associate-degree program includes the general education requirements and lower-division business core.

Students seeking an Accounting degree through the NMSU College of Business Administration and Economics may start with the DACC Pre-Business Degree and transfer to NMSU after completing the Associate Degree.

Pre-Business - Associate Degree (p. 297)

Name: Kim Seifert, Department Chair

Office Location: DAEM 100G

Phone: (575) 527-7560

Website: https://dacc.nmsu.edu/pbiz/

Name: Erica Enriquez, Teaching Tech

Office Location: DAEM 100J

Phone: (575) 528-7277

Pre-Business - Associate Degree Doña Ana Community College 2020-21 Catalog

(60 credits)

This program is administered by NMSU College of Business. All courses listed may be applied toward a degree at NMSU.

NOTE: Students must earn a final grade of C- or better in all courses designated below with footnote # 3 and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and program specific required credits to total at least 60 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but

may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
General Education		
Area I: Communication	s	
English Composition Le	evel 1	
ENGL 1110G	Composition I 1	4
English Composition Le	evel 2	
ENGL 2210G	Professional & Technical Communication ¹	3
Oral Communication		
COMM 1115G	Introduction to Communication	3
or COMM 1130G	Public Speaking	
Area II: Mathematics		
MATH 1220G	College Algebra ^{1, 2}	3
Area III/IV: Laboratory	Sciences and Social Behavioral Sciences	
	iences - The recommended Area III courses are III course is also acceptable.	4
ASTR 1120G	The Planets	
or ASTR 1115G	Introduction Astro (lec+lab)	
C S 171G	Introduction to Computer Science	
GEOG 1110G	Physical Geography	
GEOL 1110G	Physical Geology	
	oral Sciences - The recommended Area IV courses ea IV course is also acceptable.	6
ECON 2110G	Macroeconomic Principles 3,4	
ECON 2120G	Microeconomics Principles 3,4	
Area V: Humanities - Th Area V course is accep	ne recommended Area V course is below. Any other table. ⁵	3
PHIL 1115G	Introduction to Philosophy	
	ine Arts - The recommended Area VI course is /I course is also acceptable.	3
ARTH 1115G	Orientation in Art	
General Education Elec	tive	
MATH 1430G	Applications of Calculus I 1,3	3
Core Requirements		
MATH 1215	Intermediate Algebra ¹	3
MATH 1350G	Introduction to Statistics ³	3
Business Core, Lower D	Division	
ACCT 2110	Principles of Accounting I	3
ACCT 2120	Principles of Accounting II	3
BCIS 1110	Introduction to Information Systems	3
BUSA 1110	Intro to Business	3
Electives, to bring the	total to 60 credits ⁶	10
Recommended Elective	es	
BFIN 2110	Introduction to Finance	
BLAW 2110	Business Law I	
MGMT 2110	Principles of Management	
MKTG 2110	Principles of Marketing	
Total Credits		60

- Grade of C- or better required.
- MATH 1220G College Algebra is required for the degree but students may need to take any prerequisites needed to enter MATH 1220G first.

- Majors in economics must have a final grade of C- or better in ECON 2110G Macroeconomic Principles, ECON 2120G Microeconomics Principles, and MATH 1350G Introduction to Statistics or equivalent, and MATH 1430G Applications of Calculus I.
- Should not be taken until sophomore year.
- Courses listed are taught at DACC. See these categories listed under "General Education (p. 52)
- Electives chosen in consultation with advisor or satellite center director. In most cases, a maximum of eight applied credits (i.e., credit for technical courses) may be counted toward this degree.

(60 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must earn a final grade of C- or better in all courses designated in the degree plan/requirements with footnote # 3 and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and program specific requirements to total at least 60 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course	Title	Credits
Semester 1		
ENGL 1110G	Composition I	4
ARTH 1115G	Orientation in Art	3
BCIS 1110	Introduction to Information Systems	3
BUSA 1110	Intro to Business	3
MATH 1215	Intermediate Algebra	3
	Credits	16
Semester 2		
COMM 1115G or COMM 1130G	Introduction to Communication or Public Speaking	3
MATH 1220G	College Algebra	3
recommended Area III	iences - Choose one from the following. The courses are listed below. Any other Area III ACC Catalog is also acceptable.	4
ASTR 1115G	Introduction Astro (lec+lab)	
ASTR 1120G	The Planets	
BIOL 1120G & BIOL 1120L	Human Biology and Human Biology Laboratory	
BIOL 2610G & BIOL 2610L	Principles of Biology: Biodiversity, Ecology, and Evolution and Principles of Biology: Biodiversity, Ecology, and Evolution Laboratory	
C S 171G	Introduction to Computer Science	
GEOG 1110G	Physical Geography	
GEOL 1110G	Physical Geology	

PHIL 1115G	Introduction to Philosophy	3
	Credits	13
Semester 3		
ENGL 2210G	Professional & Technical Communication	3
ECON 2110G	Macroeconomic Principles	3
MATH 1430G	Applications of Calculus I	3
ACCT 2110	Principles of Accounting I	3
Recommended Elec	ctive - Choose courses in consultation with advisor.	4
BFIN 2110	Introduction to Finance	
BLAW 2110	Business Law I	
MGMT 2110	Principles of Management	
MKTG 2110	Principles of Marketing	
	Credits	16
Semester 4		
MATH 1350G	Introduction to Statistics	3
ECON 2120G	Microeconomics Principles	3
ACCT 2120	Principles of Accounting II	3
Recommended Elec	ctive - Choose TWO in consultation with advisor.	6
BFIN 2110	Introduction to Finance	
BLAW 2110	Business Law I	
MGMT 2110	Principles of Management	
MKTG 2110	Principles of Marketing	
	Credits	15
	Total Credits	60

Public Health

Associate of Public Health Degree

The Associate of Public Health (APH) teaches the first four responsibility areas of health education: assessment, planning, implementation, and evaluation of public health programs, to improve the health of our communities.

The associate of public health provides the initial coursework to prepare students for a career in public health. Public health is an exciting area of practice which takes a population-based focus to health. Individuals in this field interpret community data to determine health needs and intervention priorities. In addition to needs assessment, they work with community leaders to plan, implement, and evaluate community health education interventions such as smoking cessation, chronic and infectious disease awareness campaigns, vaccination programs, and family planning and prenatal care initiatives. This program is ideal for those who like to work with the public, yet who also like to take the broader view of how to promote the health of communities and groups of citizens.

The associate degree program fully articulates with the bachelor of public health program offered at NMSU-Las Cruces campus in the Department of Public Health Science, which also offers the master of public health at the graduate level. The courses in this associate of public health curriculum at DACC will meet the majority of NMSU's General Education degree requirements and are designed to give students a full overview of public health and community health education. There are no special admissions criteria for this program, but prospective majors should arrange an initial degree advising session with a public health faculty member in the Arts, Humanities and Social Sciences Division. The faculty member will also be able to advise students regarding choices for elective courses.

Community Health Worker Certificate

The sixteen-credit Community Health Worker (CHW) certificate is embedded within the DACC Associate of

Public Health. The Community Health Worker certificate will train students to have a basic understanding of key public health issues like maternal and child health, chronic disease and environmental health. The program includes competencies such as: effective communication, interpersonal skills, health coaching, service coordination, capacity building, advocacy, community health outreach, and community knowledge and assessment. Upon completion of the DACC CHW Certificate, students may apply for CHW endorsement from the NM Department of Health.

NOTE: The Associate Degree in Public Health and the Community Health Worker Certificate may be obtained entirely online.

Visit the public health program website here.

Public Health - Associate Degree (p. 300)

Community Health Worker - Certificate (p. 302)

CHSS 1110. Intro to Health & Community Services 3 Credits (3)

This course offers a holistic and multidisciplinary approach towards health promotion, wellness and a healthy lifestyle. Emphasis is placed on the major problems/issues that have the greatest significance to personal and community health. Topics to be discussed include:nutrition, fitness, stress management, sexuality, drug education and others.

CHSS 2510. Service Learning

1-4 Credits (1-4)

Service Learning Experience in Human and Community Service: Exploration of contemporary social, civil, economic and ethical problems that require student participation in collaborative efforts within the community

Prerequisite(s)/Corequisite(s): PHLS 1110G, CHSS 1110, and PHLS 2120. Prerequisite(s): PHLS 2110. Restricted to Community Colleges campuses only.

PHLS 1110G. Personal Health & Wellness 3 Credits (3)

A holistic and multi-disciplinary approach towards promoting positive lifestyles. Special emphasis is placed on major problems that have greatest significance to personal and community health. Topics to include nutrition, stress management, fitness, aging, sexuality, drug education, and others.

PHLS 2110. Foundations of Health Education 3 Credits (3)

Role and responsibility of the health educator with emphasis on small group dynamics, oral and written communication skills, building community coalitions and introduction to grant writing. Taught with PHLS 375. Cannot receive credit for both PHLS 2110 and PHLS 375. May be repeated up to 3 credits.

Prerequisite(s): PHLS 1110G, or consent of instructor.

PHLS 2120. Essentials of Public Health 3 Credits (3)

The course will focus on principles and major areas if public health, including ecological and total personal concept of health care system, epidemiological approaches to disease prevention and control. Consent of Instructor required.

Name: Becky Corran, Department Chair

Office Location: DACC East Mesa Campus, DAAR 100D

Phone: (575) 528-7033

Website: https://dacc.nmsu.edu/hlth/

Name: Amy Collins, Professor

Office Location: DACC Espina Campus, DASH 99

Phone: (575) 528-7068

Website: https://dacc.nmsu.edu/hlth/

Public Health - Associate of Public Health

Doña Ana Community College 2020-21 Catalog

(60-61 credits)

NOTE: Students must earn a final grade of C- or better in all required Public Health courses/Technical Requirements and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 60 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
General Education		
Area I: Communications	s	
English Composition - L	evel 1	
ENGL 1110G	Composition I	4
English Composition - L	evel 2	
ENGL 2210G	Professional & Technical Communication	3
Oral Communication		
COMM 1130G	Public Speaking	3
or COMM 1115G	Introduction to Communication	
Area II: Mathematics		
Choose one from the f	following: 1, 2, 3	3
MATH 1220G	College Algebra	
MATH 1430G	Applications of Calculus I	
MATH 1350G	Introduction to Statistics	
Area III/IV: Laboratory S	Sciences and Social/Behavioral Sciences	10-11
Area III: Laboratory	Sciences Course (4 credits) ⁴	
Area IV: Social/Beh	avioral Sciences (3 credits) ⁵	
Either an Area III/IV Sciences Course (4	<i>f</i> : Laboratory Sciences or Social/Behavioral For 3 credits) ^{4, 5}	
Area V: Humanities		
Choose one from the f	ollowing:	3
ENGL 2520G	Film as Literature	
ENGL 2650G	World Literature I	
HIST 1110G	United States History I	
HIST 1120G	United States History II	
HIST 1130G	World History I	
HIST 1140G	World History II	

HIST 1150G	Western Civilization I	
HIST 1160G	Western Civilization II	
PHIL 1115G	Introduction to Philosophy	
PHIL 1120G	Logic, Reasoning, & Critical Thinking	
PHIL 1140G	Quest for God	
PHIL 2110G	Introduction to Ethics	
PHIL 2230G	Philosophical Thought	
Area VI: Creative and F		
Choose one from the	following:	3
ARTH 1115G	Orientation in Art	
ARTS 1145G	Visual Concepts	
DANC 1110G	Dance Appreciation	
MUSC 1110G	Music Appreciation: Jazz	
MUSC 1130G	Music Appreciation: Western Music	
THEA 1110G	Introduction to Theatre	
General Education Elec		4
Core Requirements	cuve	4
Related Requirements	7	
	irements may be approved by the department.	12
	lectives from the following:	12
AHS 120	Medical Terminology	
AHS 202	Legal and Ethical Issues in Health Care	
ANTH 1137G	Human Ancestors	
BIOL 1130G	Introductory Anatomy & Physiology (non- majors)	
BIOL 2210	Human Anatomy and Physiology I for the Health Sciences	
BIOL 2225	Human Anatomy and Physiology II	
CAST 2110	Professional and Systems Responses to Child Maltreatment	
CEPY 1120G	Human Growth and Behavior	
CEPY 2110	Learning in the Classroom	
DHYG 225	Dental Public Health Education	
ENGL 2210G	Professional & Technical Communication	
FCST 1130	Interpersonal Skills in Intimate Relationships	
FYEX 1110	First-year Seminar	
JOUR 105G	Media and Society	
MATH 1350G	Introduction to Statistics	
NUTR 2110	Human Nutrition	
SOCI 2310G	Contemporary Social Problems	
SOWK 2110G	Introduction to Human Services & Social Work	
SPAN 1110	Spanish I	
or SPAN 1220	Spanish for Heritage Learners II	
Major Requirements		
Technical Requirement	ts ⁸	15
PHLS 1110G	Personal Health & Wellness ⁹	
CHSS 1110	Intro to Health & Community Services ¹⁰	
CHSS 2510	Service Learning 11	
PHLS 2110	Foundations of Health Education ^{10,11}	
PHLS 2120	Essentials of Public Health 10	
Total Cradita		

Technical Requiremen	ts ⁸	15
PHLS 1110G	Personal Health & Wellness ⁹	
CHSS 1110	Intro to Health & Community Services ¹⁰	
CHSS 2510	Service Learning ¹¹	
PHLS 2110	Foundations of Health Education ^{10,11}	
PHLS 2120	Essentials of Public Health ¹⁰	
Total Credits		60-61

MATH 1215 Intermediate Algebra meets this program's core requirements, however it does not satisfy the New Mexico General Education Requirements. A grade of C- or better is required for MATH 120.

- Students transferring to the BPH degree program are required to take MATH 1350G Introduction to Statistics and receive a minimum grade of B.
- A Mathematics course is required for this degree but students may need to take any prerequisites needed to enter that course first.

Area III: Laboratory Sciences Courses:

- ASTR 1120G The Planets or ASTR 1115G Introduction Astro (lec+lab)
- · BIOL 1120G Human Biology/BIOL 1120L Human Biology Laboratory
- BIOL 2610G Principles of Biology: Biodiversity, Ecology, and Evolution/BIOL 2610L Principles of Biology: Biodiversity, Ecology, and Evolution Laboratory
- BIOL 2110G Principles of Biology. Cellular and Molecular Biology/BIOL 2110L Principles of Biology. Cellular and Molecular Biology Laboratory
- C S 171G Introduction to Computer Science
- CHEM 1120G Introduction to Chemistry Lecture and Laboratory (non majors)
- · CHEM 1215G General Chemistry I Lecture and Laboratory for STEM Majors
- · GEOG 1110G Physical Geography
- · GEOL 1110G Physical Geology
- PHYS 1115G Survey of Physics with Lab or PHYS 1230G Algebra-Based Physics I/PHYS 1230L Algebra-Based Physics I Lab

Area IV: Social/Behavioral Sciences Courses

- · AEEC 2130G Survey of Food and Agricultural Issues
- · ANTH 1137G Human Ancestors
- ANTH 1140G Introduction to Cultural Anthropology
- · ANTH 1115G Introduction to Anthropology
- · ANTH 1160G World Archaeology
- · CEPY 1120G Human Growth and Behavior
- · CJUS 1110G Introduction to Criminal Justice
- ECON 1110G Survey of Economics
- · ECON 2110G Macroeconomic Principles
- ECON 2120G Microeconomics Principles
- · GEOG 1120G World Regional Geography
- · GEOG 1130G Human Geography
- · POLS 1120G American National Government
- · POLS 1110G Introduction to Political Science
- · POLS 1130G Issues in American Politics
- · POLS 2120G International Relations
- JOUR 105G Media and Society
- · LING 2110G Introduction to the Study of Language and Linguistics
- PSYC 1110G Introduction to Psychology
- · SOCI 1110G Introduction to Sociology
- SOWK 2110G Introduction to Human Services & Social Work
- GNDR 2110G Introduction to Women, Gender, and Sexuality Studies
- GNDR 2120G Representing Women Across Cultures
- See the <u>General Education</u> (p. 52) section of the catalog for a full list of courses.
- 'G' courses may be counted as 'Related Requirements' and General Education' requirements, but students must have a total of 60 credits to complete the degree.
- A grade of C- or better is required in all courses listed under Technical Requirements. The CHSS and PHLS courses listed here may be applied toward the bachelor's degree program in Public Health at NMSU.
- PHLS 150G is a Technical Requirement for the Associate of Public Health AND an Area IV General Education Requirement. It may be counted for both, but students must complete a total of 60 credits to earn the degree.

- Courses align with those offered at New Mexico State University Las Cruces (main) Campus.
- PHLS 2110 Foundations of Health Education is a prerequisite for this course. The Associate of Public Health requires 3 credits (90 hours of service learning.) Students may elect to also seek the Community Health Worker certificate, which requires 4 credits (120 total hours of service-learning.)

(60-65 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must earn a final grade of C- or better in all required Public Health courses/Technical Requirements and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 60 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course	Title	Credits
Semester 1		
Area I: Communication	ns – English Composition Level 1	4
ENGL 1110G	Composition I	
Area I: Communication	ns – Oral Communications	3
COMM 1115G or COMM 1130G	Introduction to Communication G or Public Speaking	
Area II: Mathematics		3
MATH 1220G	College Algebra	
MATH 1350G	Introduction to Statistics	
MATH 1430G	Applications of Calculus I	
CHSS 1110	Intro to Health & Community Services	3
	Credits	13
Semester 2		
Area I: Communication	ns – English Composition Level 2	3
ENGL 2210G or ENGL 2221G	Professional & Technical Communication or Writing in the Humanities and Social Science	
Area III: Laboratory Sc	iences - Choose one from the following:	4
ASTR 1115G	Introduction Astro (lec+lab)	
ASTR 1120G	The Planets	
BIOL 1120G & BIOL 1120L	Human Biology and Human Biology Laboratory	
BIOL 2110G & BIOL 2110L	Principles of Biology: Cellular and Molecular Biology and Principles of Biology: Cellular and Molecular Biology Laboratory	
BIOL 2610G & BIOL 2610L	Principles of Biology: Biodiversity, Ecology, and Evolution and Principles of Biology: Biodiversity, Ecology, and Evolution Laboratory	
CHEM 1120G	Introduction to Chemistry Lecture and Laboratory (non majors)	

CHEM 1215G	General Chemistry I Lecture and Laboratory for	
050011100	STEM Majors	
GEOG 1110G GEOL 1110G	Physical Geology	
PHYS 1115G	Physical Geology Survey of Physics with Lab	
PHYS 1230G	Algebra-Based Physics I	
& PHYS 1230L	and Algebra-Based Physics I Lab	
Area IV: Social/Behav	•	3
PHLS 1110G	Personal Health & Wellness	
General Education Ele	ective - Select one NM General Education course	3-4
from the list in the NN	MSU/DACC Catalog.	
Related Requirements	s - Choose one from the following:	3-4
AHS 120	Medical Terminology	
AHS 202	Legal and Ethical Issues in Health Care	
ANTH 1137G	Human Ancestors	
BIOL 1130G	Introductory Anatomy & Physiology (non- majors)	
BIOL 2210	Human Anatomy and Physiology I for the Health Sciences	
BIOL 2225	Human Anatomy and Physiology II	
BIOL 2310	Microbiology	
& 2310L	and Microbiology Lab	
CAST 2110	Professional and Systems Responses to Child Maltreatment	
CEPY 1120G	Human Growth and Behavior	
CEPY 2110	Learning in the Classroom	
DHYG 225	Dental Public Health Education	
ENGL 2210G	Professional & Technical Communication	
FCST 1130	Interpersonal Skills in Intimate Relationships	
FYEX 1110	First-year Seminar	
JOUR 105G	Media and Society	
MATH 1350G	Introduction to Statistics	
NUTR 2110	Human Nutrition	
SOCI 2310G	Contemporary Social Problems	
SOWK 2110G	Introduction to Human Services & Social Work	
SPAN 1110	Spanish I	
SPAN 1220	Spanish for Heritage Learners II	
	Credits	16-18
Semester 3	-i A IV	2.4
- Select one course fr	ciences or Area IV - Social/Behavioral Sciences om either Area III or Area IV in the NMSU/DACC	3-4
	III courses can be found in Semester 2. ioral Sciences - Choose one from the following.	3
	rea IV courses are listed below.	3
AEEC 2130G	Survey of Food and Agricultural Issues	
ANTH 1115G	Introduction to Anthropology	
ANTH 1137G	Human Ancestors	
ANTH 1140G	Introduction to Cultural Anthropology	
ANTH 1160G	World Archaeology	
CEPY 1120G	Human Growth and Behavior	
CJUS 1110G	Introduction to Criminal Justice	
ECON 1110G	Survey of Economics	
ECON 2110G	Macroeconomic Principles	
ECON 2120G	Microeconomics Principles	
GEOG 1120G	World Regional Geography	
GEOG 1130G GNDR 2110G	Human Geography Introduction to Women Gender and Sexuality	
לו עווט בו 10	Introduction to Women, Gender, and Sexuality Studies	

GNDR 2120G	Representing Women Across Cultures	
JOUR 105G	Media and Society	
LING 2110G	Introduction to the Study of Language and Linguistics	
POLS 1110G	Introduction to Political Science	
POLS 1120G	American National Government	
POLS 1130G	Issues in American Politics	
POLS 2120G	International Relations	
PSYC 1110G	Introduction to Psychology	
SOCI 1110G	Introduction to Sociology	
SOWK 2110G	Introduction to Human Services & Social Work	
Area V: Humanities - C	hoose one from the following:	3
ENGL 2520G	Film as Literature	
ENGL 2650G	World Literature I	
HIST 1110G	United States History I	
HIST 1120G	United States History II	
HIST 1130G	World History I	
HIST 1140G	World History II	
HIST 1150G	Western Civilization I	
HIST 1160G	Western Civilization II	
PHIL 1115G	Introduction to Philosophy	
PHIL 1120G	Logic, Reasoning, & Critical Thinking	
PHIL 1140G	Quest for God	
PHIL 2110G	Introduction to Ethics	
PHIL 2230G	Philosophical Thought	
Related Requirements	- Choose one course from the list in Semester 2.	3-4
PHLS 2110	Foundations of Health Education	3
	Credits	15-17
Semester 4		
Area VI: Creative and F	ine Arts - Choose one from the following:	3
ARTH 1115G	Orientation in Art	
ARTS 1145G	Visual Concepts	
DANC 1110G	Dance Appreciation	
MUSC 1110G	Music Appreciation: Jazz	
MUSC 1130G	Music Appreciation: Western Music	
THEA 1110G	Introduction to Theatre	
CHSS 2510	Service Learning	3
PHLS 2120	Essentials of Public Health	3
	Choose one course from the list in Semester 2.	3-4
·	Choose one course from the list in Semester 2.	4
	Credits	16-17
	T-t-l On-dit-	CO.CE

Community Health Worker - Certificate

Total Credits

Doña Ana Community College 2020-21 Catalog

(16 credits)

Note: The Community Health Worker Certificate may be obtained entirely online.

NOTE: Students must earn a final grade of C- or better in all required Public Health courses/Technical Requirements and achieve a cumulative

grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University certificate requirements, which include: General Education requirements and elective credits to total at least 16 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
	quired coursework is accepted for full credit of Public Health at DACC.	
CHSS 1110	Intro to Health & Community Services ¹	3
CHSS 2510	Service Learning ¹	4
PHLS 2110	Foundations of Health Education ¹	3
PHLS 1110G	Personal Health & Wellness ¹	3
COMM 1115G	Introduction to Communication ¹	3
Total Credits		16

All courses are available online or on-campus

(16 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must earn a final grade of C- or better in all required Public Health courses/Technical Requirements and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University certificate requirements, which include: General Education requirements and elective credits to total at least 16 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course	Title	Credits
Semester 1		
Area I: Communicat	tions – Oral Communications	3
COMM 1115G or COMM 113	Introduction to Communication 30G or Public Speaking	
Area IV: Social/Beh	avioral Sciences	3
PHLS 1110G	Personal Health & Wellness	
CHSS 1110	Intro to Health & Community Services	3
	Credits	9
Semester 2		
CHSS 2510	Service Learning	4
PHLS 2110	Foundations of Health Education	3
	Credits	7
	Total Credits	16

Radiologic Technology

Associate of Applied Science Degree: Radiologic Technology

Certificate of Completion: Computed Tomography

Radiologic Technologists are an important part of the medical team. They produce medical images (radiographs), carry out diagnostic procedures, determine safe radiation exposure limits, and collect technical data necessary to assess client (patient) status. Job prospects in the Las Cruces/El Paso area are occasionally limited, but nationwide there is faster-than-average job growth with many opportunities for persons seeking entry-level positions.

Students in the Radiologic Technology program receive training both in the classroom and in clinical settings, where they work alongside nurses, physicians, and other health-care professionals. In the classroom, students learn about the anatomy and function of the human body, radiographic physics and equipment, and radiographic procedures. Students acquire skills in radiation protection for the patient and for the health professional. Laboratory activities teach the proper positioning of an injured or ill patient. Clinical work offers students training in diagnostic radiology and introduces the student to various other imaging modalities. The clinical work is offered in Las Cruces, Alamogordo, Artesia, Carlsbad, Deming, Ruidoso, Silver City, and El Paso.

Graduates of the program are eligible to take (and must pass) the American Registry of Radiologic Technologists (ARRT) national certification exam in order to obtain employment in this field. It should be noted that felony or misdemeanor convictions may make a student ineligible to take the ARRT exam. Many states also require a license to practice as a radiographer in that state. Continuing education is required with both the ARRT and state licenses to retain current certification status. Recertification is required every ten (10) years in order to maintain ARRT national certification.

The DACC Radiologic Technology program is fully accredited by the Joint Review Committee on Education in Radiologic Technology.

Special Admissions Criteria

Radiologic Technology is a limited-entry program. Prior to applying to the program, students will have taken all program Core and Related Requirements. The following items are among the criteria considered in the selection of program applicants:

- Minimum overall college GPA depends on TEAS assessment (3.0 with > 60% of TEAS or 3.25 with < 60% on TEAS)
- · TEAS assessment test
- · GPA in Core and Related Requirements courses
- County of residence
- Completion of advanced science or math courses
- Second or third application with a 3.45 GPA
- Students must pass background check, FBI fingerprint and drug screen
- · Successful completion of interview process

A complete list is included in the application packet, available at the Health and Public Services Office in room DAHL-190 (575) 527-7630.

Required Skills and Abilities

Students should be able to demonstrate good oral expression (speech clarity), written comprehension, near vision, critical thinking skills, and physical stamina (e.g., the ability to stand for long periods of time, manipulate radiographic equipment, and move/lift patients).

DACC Radiologic Technology Mission

The mission of the DACC Radiologic Technology Program is to provide the student with the academic knowledge and clinical skills necessary to attain eligibility for certification and meaningful employment in the diagnostic imaging profession.

NOTE: Students in the Radiologic Technology program are required to complete and pass a security background check, FBI fingerprinting, and drug screening in order to participate in clinical education classes. Past criminal violations may prevent a student from completing the degree and gaining employment in the field.

Certificate Program in Computed Tomography

Computed Tomography (CT) is a branch of radiology that employs specialized radiography equipment to produce sectional images of the human anatomy. The CT technologist performs various diagnostic procedures under the supervision of a licensed radiologist or in most cases, a licensed technologist. In order to produce quality images, the CT technologist must be able to work effectively with patients and health professionals, operate sophisticated computer equipment, and observe radiation protection measures. Job prospects in the Las Cruces/El Paso area are occasionally limited, but nationwide there is faster-than-average job growth with many opportunities for persons seeking entry-level positions.

Graduates of the program are eligible to take the American Registry of Radiologic Technologists (ARRT) National Computed Tomography Certification Exam. It should be noted that felony or misdemeanor convictions may make a student ineligible to take the ARRT exam. Many states also require a license to practice as a radiographer in that state. Continuing education is required with both the ARRT and state licenses to retain current certification status.

Special Admission Requirements

In order for students to be admitted to the CT program they must be certified by the American Registry of Radiologic Technologists (ARRT) in Radiologic Technology, Radiation Therapy, or Nuclear Medicine. Nuclear medicine technologists may also be certified by the ARRT or by the Nuclear Medicine Technologist Certification Board (NMTCB). The program is offered online in order to allow students from all over New Mexico and other parts of the country to enroll. Each cohort of students admits up to 22 students per new class offering. The student must have a minimum overall college GPA of a 3.0.

NOTE: Students in the Computed Tomography program are required to complete and pass a security background check, FBI fingerprinting, and drug screening in order to participate in clinical education classes. Past criminal violations may prevent a student from completing the degree and gaining employment in the field.

Required Skills and Abilities

The student will acquire and develop the education and skills necessary to perform as an entry-level computed tomography technologist.

The student will develop learning habits that will demonstrate a commitment to professional and personal growth by participating in professional activities and continuing education.

The student will understand and apply methods for effective problem solving, critical thinking, and communication skills.

Important Facts About This Certificate Program

For information concerning the total cost, financing, time to completion, and job placement rates associated with this program, visit the following web page: https://dacc.nmsu.edu/vd/GEI/DA-CTOM-CT/Gedt.html

Associate of Applied Science: Radiologic Technology (p. 305)

Computed Tomography - Certificate of Completion (p. 307)

RADT 100. Introduction to Radiologic Technology and Patient Care 2 Credits (2)

Overview of the profession, including ethics, terminology, and basic radiation protection. Addresses basic and specialized procedures and topics related to the care of the patient. Restricted to: Community Colleges only. Restricted to Majors.

RADT 101. Radiographic Positioning I 4 Credits (2+6P)

Covers radiographic procedure and positioning concepts, techniques, terminology, and mechanics related to the thorax, abdomen, extremities, spine and pelvis. Includes positioning lab and clinical observation.

RADT 102. Radiographic Positioning II 4 Credits (2+6P)

Continuation of RADT 101. Includes skull, gastrointestinal, urinary, reproductive, biliary systems, and more advanced skeletal positions. Includes positioning lab and clinical observation.Restricted to: Community Colleges only. Restricted to Majors.

Prerequisite: RADT 101.

RADT 103. Introduction to Radiographic Imaging 3 Credits (2+2P)

Provides the student with an in-depth knowledge of radiographic exposure technique and the factors affecting radiographic film quality. Includes lab experiments. Restricted to majors.

RADT 104. Special Radiologic Modalities 2 Credits (2)

Discussion of various special procedures used in medical imaging such as, angiography, ultrasound, computerized tomography, magnetic resonance imaging, digital imaging, nuclear medicine, radiation therapy, etc. Includes guest lectures and field trips.

Prerequisite: RADT 103.

RADT 105. Radiographic Physics and Equipment 3 Credits (3)

Fundamentals of rad physics. Includes electromagnetism, x-ray production and interactions, x-ray circuitry, tubes, grids, screens, AES, fluoroscopic and portable units, beam restricting devices, calibration and quality assurance/control. Overview of mammography, US, CT, MRI, and digital radiography. Restricted to: Community Colleges only. Restricted to Majors.

Prerequisite: RADT 103 or consent of instructor.

RADT 110. Radiographic Pathology

1 Credit (1)

Overview of pathology demonstrated by radiographic procedures. Restricted to majors.

Prerequisite: RADT 154.

RADT 154. Radiographic Anatomy and Physiology 3 Credits (3)

Basic A&P for radiographic application. Includes a systems approach to body structures and organs as they relate to anatomical projections, radiographic identification, and various imaging modalities. Restricted to: RADT majors. Restricted to: Community Colleges only.

Prerequisite(s): AHS 153 or AHS 140 or BIOL 2210 or BIOL 1130, or consent of instructor.

RADT 156. Independent Study

1-6 Credits (1-6)

Individual studies/research on topics related to the radiological sciences. May be repeated for a maximum of 6 credits. Restricted to: Community Colleges only.

RADT 190. CT Equipment and Methodology

3 Credits (3)

Skill development in the operation of computed tomographic equipment, focusing on routine protocols, image quality, and quality assurance and radiation protection. May be repeated up to 3 credits. Restricted to: CTOM or RADT majors. Restricted to Community Colleges campuses only.

RADT 200. Radiation Biology and Protection 2 Credits (2)

Biological effects of ionizing radiation on cells and tissues. Includes radiation measurements, policies and protection measures for self, patients, and others. Restricted to majors. Restricted to: Community Colleges only.

Prerequisite(s): RADT 103.

RADT 201. Clinical Education I

7 Credits (32P)

Supervised practice in a radiology department under direct supervision of a registered technician. Includes film critiques. Community Colleges Only. Restricted to: RADT,OERT majors. Restricted to Community Colleges campuses only.

Prerequisite(s): RADT 105.

RADT 202. Clinical Education II

11 Credits (33P)

Continuation of RADT 201. Student will work under indirect supervision of registered personnel. May be repeated up to 11 credits. Restricted to: OERT,RADT majors. Restricted to Community Colleges campuses only. **Prerequisite(s):** OERT 201.

RADT 203. Clinical Education III

11 Credits (33P)

Continuation of RADT 202. May be repeated up to 11 credits. Restricted to: RADT,OERT majors. Restricted to Community Colleges campuses only. **Prerequisite(s)**: RADT 202.

RADT 205. Radiographic Image Critique

1 Credit (1)

Review of radiographs produced in clinical settings to evaluate anatomy and technical issues. Restricted to majors.

Prerequisite: RADT 201.

RADT 206. Applied Radiographic Procedures 2 Credits (1+3P)

Advanced course which integrates the principles and techniques of radiologic technology. Restricted to majors.

Prerequisite: RADT 202.

RADT 207. Cross Sectional Anatomy for Medical Imaging 3 Credits (3)

Anatomic relationships that are present under various sectional orientations as depicted by computed tomography or magnetic resonance imaging. May be repeated up to 3 credits. Restricted to: CTOM or RADT majors. Restricted to Community Colleges campuses only.

RADT 208. Clinical I (Computed Tomography) 3 Credits (9P)

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. Direct supervision is provided by the clinic professional. May be repeated up to 3 credits. Restricted to: RADT or CTOM majors. Restricted to Community Colleges campuses only.

RADT 209. Clinical II (Computed Tomography) 3 Credits (9P)

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. Direct supervision is provided by the clinic professional. (Capstone Course). May be repeated up to 3 credits. Restricted to: CTOM or RADT majors. Restricted to Community Colleges campuses only.

Name: Annja Cox, MA, RT (R) Radiologic Technology Program Director

Office Location: DAHL 190E

Phone: (575) 527-7581

Email: acox@nmsu.edu ()

Website: https://dacc.nmsu.edu/radt/

Radiologic Technology - Associate of Applied Science

Doña Ana Community College 2020-21 Catalog (77 credits)

NOTE: To graduate, Radiologic Technology majors must earn a *C*- or better in all RADT courses; however, the students most likely to be competitive in the admissions process will have earned a *B* or better in their prerequisites. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 77 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix Title Credits

General Education

Select one course from four of the following six content areas for a total of 12-14 credits $^{1\!,2}$

This degree requires courses from Areas I, II, III, and IV; students do not need to take additional courses to complete the General Education requirements.

Area I: Communications

ENGL 1110G Composition I ³

Area II: Mathematics

MATH 1220G College Algebra ^{3, 4}

CHEM 1120G Introduction to Chemistry Lecture and Laboratory (non majors) ³ Area IV: Social/Behavioral Sciences PSYC 1110G Introduction to Psychology ³ or SOCI 1110G Introduction to Sociology General Education Elective - Area I: Communications - Oral Communications ² COMM 1115G Introduction to Communication or COMM 1130G Public Speaking Core Requirements BIOL 2210 Human Anatomy and Physiology I for the Health Sciences ³ Major Requirements Technical Requirements ⁵ RADT 100 Introduction to Radiologic Technology and Patient Care RADT 101 Radiographic Positioning I RADT 102 Radiographic Positioning II RADT 103 Introduction to Radiographic Imaging RADT 104 Special Radiologic Modalities RADT 105 Radiographic Physics and Equipment RADT 110 Radiographic Pathology RADT 154 Radiographic Pathology RADT 154 Radiographic Anatomy and Physiology RADT 200 Radiation Biology and Protection RADT 201 Clinical Education I RADT 202 Clinical Education II RADT 203 Clinical Education III RADT 205 Radiographic Image Critique RADT 206 Applied Radiographic Procedures RADT 156 Independent Study ⁵			
Laboratory (non majors) ³ Area IV: Social/Behavioral Sciences PSYC 1110G Introduction to Psychology ³ or SOC11110G Introduction to Sociology General Education Elective - Area I: Communications - Oral Communications ² COMM 1115G Introduction to Communication or COMM 1130G Public Speaking Core Requirements BIOL 2210 Human Anatomy and Physiology I for the Health Sciences ³ Major Requirements Technical Requirements ⁵ RADT 100 Introduction to Radiologic Technology and Patient Care RADT 101 Radiographic Positioning I RADT 102 Radiographic Positioning II RADT 103 Introduction to Radiographic Imaging RADT 104 Special Radiologic Modalities RADT 105 Radiographic Physics and Equipment RADT 110 Radiographic Pathology RADT 154 Radiographic Pathology RADT 200 Radiation Biology and Protection RADT 201 Clinical Education I RADT 202 Clinical Education II RADT 203 Clinical Education III RADT 205 Radiographic Image Critique RADT 206 Applied Radiographic Procedures RADT 156 Independent Study ⁵	Area III: Laboratory Sci	ences	4
PSYC 1110G Introduction to Psychology or SOCI 1110G Introduction to Sociology General Education Elective - Area I: Communications - Oral Communications 2 COMM 1115G Introduction to Communication or COMM 1130G Public Speaking Core Requirements BIOL 2210 Human Anatomy and Physiology I for the Health Sciences 3 Major Requirements Technical Requirements 5 RADT 100 Introduction to Radiologic Technology and Patient Care RADT 101 Radiographic Positioning I RADT 102 Radiographic Positioning II RADT 103 Introduction to Radiographic Imaging RADT 104 Special Radiologic Modalities RADT 105 Radiographic Physics and Equipment RADT 110 Radiographic Pathology RADT 154 Radiographic Pathology RADT 200 Radiation Biology and Protection RADT 201 Clinical Education I RADT 202 Clinical Education II RADT 203 Clinical Education III RADT 205 Radiographic Image Critique RADT 206 Applied Radiographic Procedures RADT 156 Independent Study 5	CHEM 1120G		
or SOCI 1110G Introduction to Sociology General Education Elective - Area I: Communications - Oral Communications 2 COMM 1115G Introduction to Communication or COMM 1130G Public Speaking Core Requirements BIOL 2210 Human Anatomy and Physiology I for the Health Sciences 3 Major Requirements Technical Requirements 5 RADT 100 Introduction to Radiologic Technology and Patient Care RADT 101 Radiographic Positioning I RADT 102 Radiographic Positioning II RADT 103 Introduction to Radiographic Imaging RADT 104 Special Radiologic Modalities RADT 105 Radiographic Physics and Equipment RADT 110 Radiographic Pathology RADT 110 Radiographic Anatomy and Physiology RADT 154 Radiographic Anatomy and Physiology RADT 200 Radiation Biology and Protection RADT 201 Clinical Education I RADT 202 Clinical Education II RADT 203 Clinical Education III RADT 205 Radiographic Image Critique RADT 206 Applied Radiographic Procedures RADT 156 Independent Study 5	Area IV: Social/Behavio	oral Sciences	3
General Education Elective - Area I: Communications - Oral Communications 2 COMM 1115G Introduction to Communication or COMM 1130G Public Speaking Core Requirements BIOL 2210 Human Anatomy and Physiology I for the Health Sciences 3 Major Requirements Technical Requirements FRADT 100 Introduction to Radiologic Technology and Patient Care RADT 101 Radiographic Positioning I RADT 102 Radiographic Positioning II RADT 103 Introduction to Radiologic Modalities RADT 104 Special Radiologic Modalities RADT 105 Radiographic Physics and Equipment RADT 110 Radiographic Pathology RADT 110 Radiographic Pathology RADT 154 Radiographic Anatomy and Physiology RADT 200 Radiation Biology and Protection RADT 201 Clinical Education I RADT 202 Clinical Education II RADT 203 Clinical Education III 1 RADT 205 Radiographic Image Critique RADT 206 Applied Radiographic Procedures RADT 156 Independent Study 5	PSYC 1110G	Introduction to Psychology 3	
Communications ² COMM 1115G Introduction to Communication or COMM 1130G Public Speaking Core Requirements BIOL 2210 Human Anatomy and Physiology I for the Health Sciences ³ Major Requirements Technical Requirements ⁵ RADT 100 Introduction to Radiologic Technology and Patient Care RADT 101 Radiographic Positioning I RADT 102 Radiographic Positioning II RADT 103 Introduction to Radiographic Imaging RADT 104 Special Radiologic Modalities RADT 105 Radiographic Physics and Equipment RADT 110 Radiographic Pathology RADT 154 Radiographic Anatomy and Physiology RADT 200 Radiation Biology and Protection RADT 201 Clinical Education I RADT 202 Clinical Education III 1 RADT 203 Clinical Education III 1 RADT 205 Radiographic Image Critique RADT 206 Applied Radiographic Procedures RADT 156 Independent Study ⁵	or SOCI 1110G	Introduction to Sociology	
or COMM 1130G Public Speaking Core Requirements BIOL 2210 Human Anatomy and Physiology I for the Health Sciences ³ Major Requirements Technical Requirements ⁵ RADT 100 Introduction to Radiologic Technology and Patient Care RADT 101 Radiographic Positioning I RADT 102 Radiographic Positioning II RADT 103 Introduction to Radiographic Imaging RADT 104 Special Radiologic Modalities RADT 105 Radiographic Physics and Equipment RADT 110 Radiographic Pathology RADT 154 Radiographic Anatomy and Physiology RADT 200 Radiation Biology and Protection RADT 201 Clinical Education I RADT 202 Clinical Education III 1 RADT 203 Clinical Education III 1 RADT 205 Radiographic Image Critique RADT 206 Applied Radiographic Procedures RADT 156 Independent Study ⁵		ctive - Area I: Communications - Oral	3
Core Requirements BIOL 2210 Human Anatomy and Physiology I for the Health Sciences ³ Major Requirements Technical Requirements ⁵ RADT 100 Introduction to Radiologic Technology and Patient Care RADT 101 Radiographic Positioning I RADT 102 Radiographic Positioning II RADT 103 Introduction to Radiographic Imaging RADT 104 Special Radiologic Modalities RADT 105 Radiographic Physics and Equipment RADT 110 Radiographic Pathology RADT 154 Radiographic Anatomy and Physiology RADT 200 Radiation Biology and Protection RADT 201 Clinical Education I RADT 202 Clinical Education III 1 RADT 203 Clinical Education III 1 RADT 205 Radiographic Image Critique RADT 206 Applied Radiographic Procedures RADT 156 Independent Study ⁵	COMM 1115G	Introduction to Communication	
BIOL 2210 Human Anatomy and Physiology I for the Health Sciences ³ Major Requirements Technical Requirements ⁵ RADT 100 Introduction to Radiologic Technology and Patient Care RADT 101 Radiographic Positioning I RADT 102 Radiographic Positioning II RADT 103 Introduction to Radiographic Imaging RADT 104 Special Radiologic Modalities RADT 105 Radiographic Physics and Equipment RADT 110 Radiographic Pathology RADT 110 Radiographic Anatomy and Physiology RADT 200 Radiation Biology and Protection RADT 201 Clinical Education I RADT 202 Clinical Education III 1 RADT 203 Clinical Education III 1 RADT 205 Radiographic Image Critique RADT 206 Applied Radiographic Procedures RADT 156 Independent Study ⁵	or COMM 1130G	Public Speaking	
Major Requirements Technical Requirements Technical Requirements Technical Requirements RADT 100 Introduction to Radiologic Technology and Patient Care RADT 101 RADT 102 Radiographic Positioning I RADT 103 Introduction to Radiographic Imaging RADT 104 Special Radiologic Modalities RADT 105 Radiographic Physics and Equipment RADT 110 Radiographic Pathology RADT 154 Radiographic Anatomy and Physiology RADT 200 Radiation Biology and Protection RADT 201 Clinical Education I RADT 202 Clinical Education III 1 RADT 203 Clinical Education III 1 RADT 205 Radiographic Image Critique RADT 206 Applied Radiographic Procedures RADT 156 Independent Study 5	Core Requirements		
Technical Requirements 5 RADT 100 Introduction to Radiologic Technology and Patient Care RADT 101 Radiographic Positioning I RADT 102 Radiographic Positioning II RADT 103 Introduction to Radiographic Imaging RADT 104 Special Radiologic Modalities RADT 105 Radiographic Physics and Equipment RADT 110 Radiographic Pathology RADT 154 Radiographic Anatomy and Physiology RADT 200 Radiation Biology and Protection RADT 201 Clinical Education I RADT 202 Clinical Education III 1 RADT 203 Clinical Education III 1 RADT 205 Radiographic Image Critique RADT 206 Applied Radiographic Procedures RADT 156 Independent Study 5	BIOL 2210		4
RADT 100 Introduction to Radiologic Technology and Patient Care RADT 101 Radiographic Positioning I RADT 102 Radiographic Positioning II RADT 103 Introduction to Radiographic Imaging RADT 104 Special Radiologic Modalities RADT 105 Radiographic Physics and Equipment RADT 110 Radiographic Pathology RADT 154 Radiographic Anatomy and Physiology RADT 200 Radiation Biology and Protection RADT 201 Clinical Education I RADT 202 Clinical Education III 1 RADT 203 Clinical Education III 1 RADT 205 Radiographic Image Critique RADT 206 Applied Radiographic Procedures RADT 156 Independent Study 5	•		
Patient Care RADT 101 Radiographic Positioning I RADT 102 Radiographic Positioning II RADT 103 Introduction to Radiographic Imaging RADT 104 Special Radiologic Modalities RADT 105 Radiographic Physics and Equipment RADT 110 Radiographic Pathology RADT 154 Radiographic Anatomy and Physiology RADT 200 Radiation Biology and Protection RADT 201 Clinical Education I RADT 202 Clinical Education III 1 RADT 203 Clinical Education III 1 RADT 205 Radiographic Image Critique RADT 206 Applied Radiographic Procedures RADT 156 Independent Study 5	Technical Requirements	5	
RADT 102 Radiographic Positioning II RADT 103 Introduction to Radiographic Imaging RADT 104 Special Radiologic Modalities RADT 105 Radiographic Physics and Equipment RADT 110 Radiographic Pathology RADT 154 Radiographic Anatomy and Physiology RADT 200 Radiation Biology and Protection RADT 201 Clinical Education I RADT 202 Clinical Education II 1 RADT 203 Clinical Education III 1 RADT 205 Radiographic Image Critique RADT 206 Applied Radiographic Procedures RADT 156 Independent Study 5	RADT 100	3	2
RADT 103 Introduction to Radiographic Imaging RADT 104 Special Radiologic Modalities RADT 105 Radiographic Physics and Equipment RADT 110 Radiographic Pathology RADT 154 Radiographic Anatomy and Physiology RADT 200 Radiation Biology and Protection RADT 201 Clinical Education I RADT 202 Clinical Education II 1 RADT 203 Clinical Education III 1 RADT 205 Radiographic Image Critique RADT 206 Applied Radiographic Procedures RADT 156 Independent Study 5	RADT 101	Radiographic Positioning I	4
RADT 104 Special Radiologic Modalities RADT 105 Radiographic Physics and Equipment RADT 110 Radiographic Pathology RADT 154 Radiographic Anatomy and Physiology RADT 200 Radiation Biology and Protection RADT 201 Clinical Education I RADT 202 Clinical Education II 1 RADT 203 Clinical Education III 1 RADT 205 Radiographic Image Critique RADT 206 Applied Radiographic Procedures RADT 156 Independent Study 5	RADT 102	Radiographic Positioning II	4
RADT 105 Radiographic Physics and Equipment RADT 110 Radiographic Pathology RADT 154 Radiographic Anatomy and Physiology RADT 200 Radiation Biology and Protection RADT 201 Clinical Education I RADT 202 Clinical Education II 1 RADT 203 Clinical Education III 1 RADT 205 Radiographic Image Critique RADT 206 Applied Radiographic Procedures RADT 156 Independent Study 5	RADT 103	Introduction to Radiographic Imaging	3
RADT 110 Radiographic Pathology RADT 154 Radiographic Anatomy and Physiology RADT 200 Radiation Biology and Protection RADT 201 Clinical Education I RADT 202 Clinical Education II 1 RADT 203 Clinical Education III 1 RADT 205 Radiographic Image Critique RADT 206 Applied Radiographic Procedures RADT 156 Independent Study 5	RADT 104	Special Radiologic Modalities	2
RADT 154 Radiographic Anatomy and Physiology RADT 200 Radiation Biology and Protection RADT 201 Clinical Education I RADT 202 Clinical Education II 1 RADT 203 Clinical Education III 1 RADT 205 Radiographic Image Critique RADT 206 Applied Radiographic Procedures RADT 156 Independent Study 5	RADT 105	Radiographic Physics and Equipment	3
RADT 200 Radiation Biology and Protection RADT 201 Clinical Education I RADT 202 Clinical Education II 1 RADT 203 Clinical Education III 1 RADT 205 Radiographic Image Critique RADT 206 Applied Radiographic Procedures RADT 156 Independent Study 5	RADT 110	Radiographic Pathology	1
RADT 201 Clinical Education I RADT 202 Clinical Education II 1 RADT 203 Clinical Education III 1 RADT 205 Radiographic Image Critique RADT 206 Applied Radiographic Procedures RADT 156 Independent Study 5	RADT 154	Radiographic Anatomy and Physiology	3
RADT 202 Clinical Education II 1 RADT 203 Clinical Education III 1 RADT 205 Radiographic Image Critique RADT 206 Applied Radiographic Procedures RADT 156 Independent Study 5	RADT 200	Radiation Biology and Protection	2
RADT 203 Clinical Education III 1 RADT 205 Radiographic Image Critique RADT 206 Applied Radiographic Procedures RADT 156 Independent Study 5	RADT 201	Clinical Education I	7
RADT 205 Radiographic Image Critique RADT 206 Applied Radiographic Procedures RADT 156 Independent Study ⁵	RADT 202	Clinical Education II	11
RADT 206 Applied Radiographic Procedures RADT 156 Independent Study ⁵	RADT 203	Clinical Education III	11
RADT 156 Independent Study ⁵	RADT 205	Radiographic Image Critique	1
	RADT 206	Applied Radiographic Procedures	2
Total Credits 7	RADT 156	Independent Study ⁵	
	Total Credits		77

- Each course selected must be from a different area and students cannot take multiple courses in the same area.
- See the <u>General Education</u> (p. 52) section of the catalog for a full list of courses.
- Courses are identical to those offered at New Mexico State University Las Cruces (main) Campus.
- MATH 1220G College Algebra is required for the degree but students may need to take any prerequisites needed to enter MATH 1220G first.
- All RADT classes are restricted to students who have completed the Core and Related Requirements and have been accepted into the Radiologic Technology Program.
- RADT 156 Independent Study (optional 1-6 credits, not required, used for special topics on a case-by-case basis)

(77 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: To graduate, Radiologic Technology majors must earn a *C*- or better in all RADT courses; however, the students most likely to be

competitive in the admissions process will have earned a *B* or better in their prerequisites. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 77 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Credits

Title

Course

Semester 1		
Area I: Communication	ns – English Composition Level 1	4
ENGL 1110G	Composition I	
Area II: Mathematics		3
MATH 1220G	College Algebra	
Area III: Laboratory Sc	iences	4
CHEM 1120G	Introduction to Chemistry Lecture and Laboratory (non majors)	
Area IV: Social/Behavi	oral Sciences	3
PSYC 1110G or SOCI 1110G	Introduction to Psychology or Introduction to Sociology	
BIOL 2210	Human Anatomy and Physiology I for the Health Sciences	4
	Credits	18
Semester 2		
Communications. The	ctive – Area I: Communications – Oral recommended Area I Communications course her Area I Communications course in the NMSU/ acceptable.	3
COMM 1115G or COMM 11300	Introduction to Communication G or Public Speaking	
RADT 100	Introduction to Radiologic Technology and Patient Care	2
RADT 101	Radiographic Positioning I	4
RADT 103	Introduction to Radiographic Imaging	3
RADT 154	Radiographic Anatomy and Physiology	3
	Credits	15
Semester 3		
RADT 102	Radiographic Positioning II	4
RADT 104	Special Radiologic Modalities	2
RADT 105	Radiographic Physics and Equipment	3
RADT 110	Radiographic Pathology	1
RADT 200	Radiation Biology and Protection	2
	Credits	12
Semester 4		
RADT 201	Clinical Education I	7
	Credits	7
Semester 5		
RADT 202	Clinical Education II	11
RADT 205	Radiographic Image Critique	1
	Credits	12
Semester 6		
RADT 203	Clinical Education III	11
RADT 206	Applied Radiographic Procedures	2

RADT 156 - Independent Study (optional 1-6 credits; not required, used for special topics on a case-by-case basis).

Credits	13
Total Credits	77

Computed Tomography - Certificate of Completion

Doña Ana Community College 2020-21 Catalog

(18 credits)

NOTE: Computed Tomography majors must obtain a C- or better in all required courses to graduate and achieve a cumulative grade-point average of at least 2.0.

Students must complete all University certificate requirements to total at least 18 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
Related Requirements	s	
BIOL 2210	Human Anatomy and Physiology I for the Health Sciences	4
RADT 100	Introduction to Radiologic Technology and Patient Care	2
Technical Requirement	nts	
RADT 190	CT Equipment and Methodology	3
RADT 207	Cross Sectional Anatomy for Medical Imaging	3
RADT 208	Clinical I (Computed Tomography)	3
RADT 209	Clinical II (Computed Tomography)	3
Total Credits		18

(18 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must earn a final grade of C- or better in all required courses and achieve a cumulative grade-point average of at least 2.0.

Students must complete all University certificate requirements to total at least 18 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course	Title	Credits
Semester 1		
BIOL 2210	Human Anatomy and Physiology I for the Health Sciences	4
RADT 100	Introduction to Radiologic Technology and Patient Care	2
	Credits	6
Semester 2		
RADT 190	CT Equipment and Methodology	3

3 12
3
3
3

Respiratory Therapy

Associate of Applied Science Degree

Respiratory Therapy is an allied health specialty encompassing the diagnosis, treatment, management and prevention of problems affecting the respiratory and cardiovascular system.

Respiratory Therapy practitioners work side-by-side with physicians, and other healthcare professionals in the hospital setting. They set up oxygen, perform pulmonary function testing, set up and maintain ventilators, administer respiratory drugs, and evaluate patient health status.

Respiratory therapy is a rapidly growing, people-oriented profession. The demand for practitioners is increasing in New Mexico and throughout the United States. While most graduates continue to find employment in hospitals, opportunities are opening up with medical equipment suppliers and agencies providing home health care to pulmonary patients.

The Respiratory Therapy program at Doña Ana Community College is a full-time program that leads to an associate of applied science degree. Through classroom instruction and laboratory practice, students develop the knowledge needed to care for patients. They acquire additional hands-on experience in the clinical setting at surrounding hospitals.

The curriculum and clinical hour content is based on the National Standard Curriculum from the American Association of Respiratory Therapy (AARC) and the national accrediting body, the Commission on Accreditation for Respiratory Care.

Commission on Accreditation for Respiratory Care (CoARC) 1228 Harwood Rd.

Bedford, TX 76021 Phone: (817) 283-2835 www.coarc.com

The Respiratory Therapy Program is also accredited by the Commission on Accreditation for Respiratory Care. The program is designed to prepare students to have mastered competency in assessment, diagnosis and treatment of the cardiopulmonary patient. Upon completion of the program graduates are eligible to sit for their national licensure certification and registry examinations.

Required Skills and Abilities

Students should be able to demonstrate good oral expression (speech clarity) and written comprehension, critical thinking skills, the ability to hear through a stethoscope or augmented listening device, and physical stamina (e.g., the ability to stand for long periods of time, manipulate respiratory therapy equipment, and move/lift patients and equipment up to 50 pounds, unassisted).

Program Admissions Criteria

Respiratory Therapy is a limited-entry program. The following items are among the criteria are used in the selection of successful program applicants:

- · Health Occupations Basic Entrance Test scores care curriculum
- · Cumulative GPA of 3.0 or better
- · Science GPA of 2.7 or better
- · Completion of the following courses:

Prefix	Title	Credits
ENGL 1110G	Composition I 1	4
MATH 1220G	College Algebra	3
CHEM 1120G	Introduction to Chemistry Lecture and Laboratory (non majors) 1	4
AHS 120	Medical Terminology	3
BIOL 2310 & 2310L	Microbiology and Microbiology Lab ¹	4
BIOL 2210	Human Anatomy and Physiology I for the Health Sciences ¹	4
BIOL 2225	Human Anatomy and Physiology II ¹	4
PSYC 1110G	Introduction to Psychology	3
or SOCI 1110G	Introduction to Sociology	

A complete list is included in the application packet, available at the Respiratory Therapy program office in room DAHL-191; Phone: (575) 527-7607.

Courses are identical to those offered at New Mexico State University Las Cruces (main) Campus.

Requirements to Participate in Clinical Practice

Clinical coursework is required for completion of this program. Upon admittance and throughout the program, students will be required to meet requirements of each clinical site in order to complete the required coursework. Requirements include but are not limited to the following:

- Background check and fingerprinting through the designated college affiliate (adverse findings may disqualify a student from continuing in the program)
- 2. Current CPR certification
- 3. Current TB test
- 4. Record of current tuberculin, rubella, tetanus, varicella, and Hepatitis B immunizations, or titers.
- 5. Drug screening

NOTE: There are two established cut scores for the Therapist Multiple-Choice Examination. If a candidate achieves the lower cut score, (s)he will earn the CRT credential. If a candidate achieves the higher cut score, (s)he will earn the CRT credential *and* become eligible for the Clinical Simulation Examination (provided that those eligibility requirements are met and the candidate is eligible to earn the RRT credential). The CRT and/or RRT credentials are used as the basis for the licensure.

Course Fees

In addition to tuition, a fee of \$120 is charged for each of the following courses:

Prefix	Title	Credits
RESP 110 L	Respiratory Therapy I Lab	2
RESP 120 L	Respiratory Therapy II Lab	2
RESP 230 L	Respiratory Therapy V Lab	2
RESP 240 L	Respiratory Therapy VI Lab	2

Respiratory Therapy - Associate of Applied Science (p. 309)

RESP 110. Respiratory Therapy I

3 Credits (3)

Introduction to basic respiratory care techniques. Includes history, professional organizations, medical gas administration, oxygen therapy, cardiopulmonary AP, patient assessments, and medical terminology. Requires a C or better to remain in program. Restricted to: Community Colleges only. Restricted to DA-RESP-AA majors.

RESP 110 L. Respiratory Therapy I Lab

2 Credits (2)

Laboratory practice of basic respiratory care procedures. Requires a C or better to remain in program. Restricted to: Community Colleges only. Restricted to DA-RESP-AA majors.

RESP 115. Respiratory Therapy Pharmacology 3 Credits (3)

Concepts of physics as they apply to the physiology of the lungs. Requires a C or better to remain in program. Restricted to: Community Colleges only. Restricted to DA-RESP-AA majors.

RESP 120. Respiratory Therapy II 4 Credits (4)

Advanced respiratory care techniques. Emphasis on airway management, aerosol treatment, chest physiotherapy, pharmacology, posture pressure breathing, and pulmonary rehabilitation. Requires a C or better to remain in program. May be repeated up to 4 credits. Students must be admitted into program to enroll in this course. Restricted to Community Colleges campuses only.

Prerequisite(s): RESP 110. Corequisite(s): RESP 120 L.

RESP 120 L. Respiratory Therapy II Lab 2 Credits (6P)

Continuation of lab practices and procedures learned in RESP 120, Respiratory Care II, using equipment and simulations. Requires a C or better to remain in program. Students must be admitted to the program to enroll in this course. Corequisite(s):RESP 120. Restricted to: Community Colleges only. Restricted to RESP majors.

Prerequisite(s): RESP 110, RESP 110L and RESP 112.

RESP 124. Respiratory Therapy II Clinical 3 Credits (9P)

Supervised practice and application in a hospital setting. Requires a C or better to remain in program. Students must be admitted into program to enroll in this course. Restricted to: Community Colleges only. Restricted to RESP majors.

Prerequisite(s): RESP 110, RESP 110L and RESP 112.

Corequisite(s): RESP 120 and RESP 120L.

RESP 155. Respiratory Therapy Special Topics 1-4 Credits

Topics to be announced in the Schedule of Classes. May be repeated for a maximum of 10 credits. Consent of instructor required. Restricted to: Community Colleges only. Restricted to RESP majors.

Prerequisite(s): Admission to program.

RESP 210. Respiratory Therapy III 2 Credits (2)

Introduction to adult, mechanical, neonatal ventilator theory and concepts of critical care medicine. Requires a C or better to remain in program. Students must be admitted into program to enroll in this course. Restricted to: Community Colleges only. Restricted to RESP majors.

Prerequisite(s): RESP 115, RESP 120, RESP 120L, and RESP 124.

Corequisite(s): RESP 210L.

RESP 210 L. Respiratory Therapy III Lab

2 Credits (2)

Advanced practice procedures using mechanical ventilation devices. Requires a C or better to remain in program. Students must be admitted into program to enroll in this course. Restricted to: Community Colleges only. Restricted to RESP majors.

Prerequisite(s): RESP 115, RESP 120, RESP 120 L, and RESP 124. Corequisite(s): RESP 210.

RESP 224. Respiratory Therapy IV Clinical 3 Credits (9P)

Continuation of RESP 124. Emphasis on mechanical ventilators. Requires a C or better to remain in program. Restricted to: Community Colleges only. Restricted to RESP majors.

Prerequisite(s): Admission to program, and RESP 115, RESP 120, RESP 120 L, and RESP 124.

RESP 230. Respiratory Therapy V

3 Credits (3)

Continuation of RESP 215. Emphasis on special modalities. Requires a C or better to remain in program. Restricted to: Community Colleges only. Restricted to DA-RESP-AA majors.

RESP 230 L. Respiratory Therapy V Lab

2 Credits (2)

Advanced practice and procedures of respiratory care. Requires a C or better to remain in program. Restricted to: Community Colleges only. Restricted to DA-RESP-AA majors.

RESP 233. Respiratory Therapy Cardiopulmonary 2 Credits (2)

Concepts of physics as they apply to the physiology of the lung. Emphasis on laws pertaining to gas flow, humidity, and the mechanics of the breathing process. Requires a C or better to remain in program. Restricted to: Community Colleges only. Restricted to DA-RESP-AA majors.

RESP 234. Respiratory Therapy V Clinical

3 Credits (3)

Continuation of RESP 214. Emphasis on special modalities. Restricted to: Community Colleges only. Restricted to DA-RESP-AA majors.

RESP 240. Respiratory Therapy VI

3 Credits (3)

Advanced theory of hemodynamics, neonate, pediatric, and new specialties that apply to respiratory care. Requires a C or better to remain in program. Students must be admitted into program to enroll in this course. Restricted to: Community Colleges only. Restricted to RESP majors.

Prerequisite(s): RESP 230, RESP 230L, RESP 233 and RESP 234. Corequisite(s): RESP 240L.

RESP 240 L. Respiratory Therapy VI Lab

2 Credits (6P)

Advanced laboratory practice and procedures. Requires a C or better to remain in program. Students must be admitted into program to enroll in this course. Restricted to: Community Colleges only. Restricted to RESP majors.

Prerequisite(s): RESP 230, RESP 230L, RESP 233 and RESP 234. **Corequisite(s):** RESP 240.

RESP 242. Pediatric Advanced Life Support (PALS)

1 Credit (1)

Etiology, diagnosis, clinical manifestations, and management of cardiopulmonary disorders related to respiratory care. Restricted to majors.

Corequisite(s): RESP 230.

RESP 243. Respiratory Therapy Neonatal Resuscitation 1 Credit (1)

Advanced practice of the neonatal resuscitation and certification. Students must be admitted into program to enroll in this course. Restricted to: Community Colleges only. Restricted to RESP majors. **Prerequisite(s)**: RESP 230, RESP 230L, RESP 233, and RESP 234. **Corequisite(s)**: RESP 240 and RESP 244.

RESP 244. Respiratory Therapy VI Clinical 3 Credits (9P)

Clinical experience on special modalities. Requires a C or better to remain in program. Students must be admitted into program to enroll in this course. Restricted to: Community Colleges only. Restricted to RESP majors.

Prerequisite(s): RESP 230, RESP 230L, RESP 233 and RESP 234. Corequisite(s): RESP 240.

RESP 255. Respiratory Therapy Special Topics

1-4 Credits

Specific subjects to be announced in the Schedule of Classes. May be repeated for a maximum of 4 credits. Consent of instructor required. Restricted to: Community Colleges only. Restricted to RESP majors. **Prerequisite(s)**: Admission to program.

Name: Virginia Durant, Program Director

Office Location: DAHL 191H

Phone: (575) 527-7607

Website: https://dacc.nmsu.edu/resp/

Respiratory Therapy - Associate of Applied Science

Doña Ana Community College 2020-21 Catalog

(79-80 credits)

NOTE: Respiratory Therapy majors must earn a C or better in all Respiratory Therapy and related courses and achieve a cumulative grade-point average of at least 2.0. in order to remain in the program. In addition to the requirements listed here, certain Special Topics and Independent Study courses may be recommended by the advisor. A grade of C-or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 79 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix Title Credits

General Education

Select one course from four of the following six content areas for a total of 12-14 credits $^{\rm 1,\,2}$

This degree requires courses from Areas I, II, III, and IV; students do not need to take additional courses to complete the General Education requirements.

Area I: Communications		
ENGL 1110G	Composition I ³	
Area II: Mathematic		
MATH 1220G	College Algebra (Technical Requirement) 3, 4	
Area III: Laboratory	Sciences	
CHEM 1120G	Introduction to Chemistry Lecture and Laboratory (non majors) ³	
Area IV: Social/Beh	avioral Sciences	
PSYC 1110G	Introduction to Psychology ³	
or SOCI 1110G	Introduction to Sociology	
General Education Elec	tive ²	3-4
Core Requirements		
AHS 120	Medical Terminology	3
BIOL 2310	Microbiology	4
& 2310L	and Microbiology Lab ³	
BIOL 2210	Human Anatomy and Physiology I for the Health Sciences	4
BIOL 2225	Human Anatomy and Physiology II	4
Major Requirements		
Technical Requirements	s ⁵	
BIOL 2505	Pathophysiology ³	3
or HIT 140	Health Information Introduction to Pathophysiology	
RESP 110	Respiratory Therapy I	3
RESP 110 L	Respiratory Therapy I Lab	2
RESP 115	Respiratory Therapy Pharmacology	3
RESP 120	Respiratory Therapy II	4
RESP 120 L	Respiratory Therapy II Lab	2
RESP 124	Respiratory Therapy II Clinical	3
RESP 210	Respiratory Therapy III	2
RESP 210 L	Respiratory Therapy III Lab	2
RESP 224	Respiratory Therapy IV Clinical	3
RESP 230	Respiratory Therapy V	3
RESP 230 L	Respiratory Therapy V Lab	2
RESP 233	Respiratory Therapy Cardiopulmonary	2
RESP 234	Respiratory Therapy V Clinical	3
RESP 240	Respiratory Therapy VI	3
RESP 240 L	Respiratory Therapy VI Lab	2
RESP 242	Pediatric Advanced Life Support (PALS)	1
RESP 243	Respiratory Therapy Neonatal Resuscitation	1
RESP 244	Respiratory Therapy VI Clinical	3
Total Credits		79-80

- Each course selected must be from a different area and students cannot take multiple courses in the same area.
- See the <u>General Education</u> (p. 52) section of the catalog for a full list of courses.
- Courses are identical to those offered at New Mexico State University Las Cruces (main) Campus.
- MATH 1220G College Algebra is required for the degree but students may need to take any prerequisites needed to enter MATH 1220G first.
- All RESP classes are restricted to students who have been accepted into the Respiratory Therapy program.

(79-80 credits)

0------

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Respiratory Therapy majors must earn a C or better in all Respiratory Therapy and related courses and achieve a cumulative gradepoint average of at least 2.0. in order to remain in the program. In addition to the requirements listed here, certain Special Topics and Independent Study courses may be recommended by the advisor. A grade of Cor better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 79 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course	Title	Credits
Semester 1		
Area I: Communication	ns - English Composition Level 1	4
ENGL 1110G	Composition I	
Area III: Laboratory Sc	iences	4
CHEM 1120G	Introduction to Chemistry Lecture and Laboratory (non majors)	
Area IV: Social/Behavi	oral Sciences	3
PSYC 1110G or SOCI 1110G	Introduction to Psychology or Introduction to Sociology	
BIOL 2210	Human Anatomy and Physiology I for the Health Sciences	4
	Credits	15
Semester 2		
Area II: Mathematics		3
MATH 1220G	College Algebra	
	ctive - Choose one course from the NM General ted in the NMSU/DACC Catalog.	3-4
AHS 120	Medical Terminology	3
BIOL 2225	Human Anatomy and Physiology II	4
	Credits	13-14
Semester 3		
BIOL 2110G	Principles of Biology: Cellular and Molecular	4
& BIOL 2110L	Biology	
	and Principles of Biology: Cellular and Molecular Biology Laboratory	
BIOL 2505	Pathophysiology	3
BIOL 2303 RESP 110	Respiratory Therapy I	3
RESP 110 L	Respiratory Therapy I Lab	2
RESP 115	Respiratory Therapy Pharmacology	3
TIEST 115	Credits	15
Semester 4	Geuito	10
RESP 120	Respiratory Therapy II	4
RESP 120 L	Respiratory Therapy II Lab	2
RESP 124	Respiratory Therapy II Clinical	3
1124	Credits	9
	Oreuro	9

Semester 5		
RESP 210	Respiratory Therapy III	2
RESP 210 L	Respiratory Therapy III Lab	2
RESP 224	Respiratory Therapy IV Clinical	3
	Credits	7
Semester 6		
RESP 230	Respiratory Therapy V	3
RESP 230 L	Respiratory Therapy V Lab	2
RESP 233	Respiratory Therapy Cardiopulmonary	2
RESP 234	Respiratory Therapy V Clinical	3
	Credits	10
Semester 7		
RESP 240	Respiratory Therapy VI	3
RESP 240 L	Respiratory Therapy VI Lab	2
RESP 242	Pediatric Advanced Life Support (PALS)	1
RESP 243	Respiratory Therapy Neonatal Resuscitation	1
RESP 244	Respiratory Therapy VI Clinical	3
	Credits	10
·	Total Credits	79-80

Water Technology EPA State Environmental Training Program

Associate of Water Technology Degree

Certificate of Completion

The Water Technology program is an award-winning, up-to-date technical training opportunity that will open doors to a career anywhere in the United States. Graduates of this program have found work in New Mexico, Colorado, Texas, Arizona, California, Vermont, New Hampshire, Iraq, and Puerto Rico. More than 400 graduates have begun careers in the water field, working in such diverse areas as the semiconductor industry, the food processing industry, aerospace industry, electrical power industry, city water and wastewater departments, municipal or contract analytical laboratories, water reuse or recycling plants, metal plating companies, engineering consulting firms, and state planning offices.

While jobs are widely available, training programs like this one are rare. As the treatment of water becomes more technical, municipalities and industries rely on training programs to fill their needs. Students in this program learn how to clean water to make it safe for drinking and how to purify water to a high quality for use in computer chip manufacturing, food processing, or steam generation. They will also learn how to treat wastewater so it can be safely returned to the environment or reclaimed for beneficial use. Instruction also includes maintaining equipment such as pumps, motors, valves, and chemical feeders; laboratory testing and analysis; water chemistry and microbiology; and some basics of supervising and managing a water utility, including budgets, preventive maintenance schemes, and billing. Various course assignments requiring laboratory data sheets, simple process control spreadsheets, and term papers enable students to sharpen their computer and writing skills. General studies in basic algebra, applied math, water chemistry and microbiology, speech, and technical writing round out the curriculum.

Whether taking classes or working on a job site, students enrolled in this program will be required to perform the same job duties and be able to meet the same physical requirements that they will as graduates in the

field. Depending where they find employment, graduates may be required to

- · work in inclement weather,
- · lift up to 50 pounds from the ground,
- work safely around hazardous chemicals using appropriate safety equipment such as a self-contained breathing apparatus,
- · work safely in confined spaces,
- · ascend and descend stairs and ladders to reach equipment,
- · work safely around heavy equipment,
- · work safely and effectively on uneven surfaces, and
- · stand for long periods of time on concrete floors.

Some positions in the field require certification and the licensing agency may not provide special testing accommodations.

Opportunities for students to gain new knowledge and skills in operations, maintenance, and laboratory areas are provided through classroom training, hands-on laboratories, field trips, guest lectures, and training on the program's own water and wastewater plants.

Before graduating, students will spend a minimum of 180 hours at a cooperative education site with a municipality or industry. Students have found co-ops at water and wastewater plants in Albuquerque, El Paso, Las Cruces, Socorro, Hobbs, Silver City, Mesilla, and Glorieta, and with industries such as Intel and Kurita America.

Financial aid beyond loans, grants, work-study monies, and DACC scholarships include seven private scholarships specifically for Water Technology students:

- Max Summerlot Memorial Scholarship, given to a water technology student in his or her second year in the program;
- 2. Cynthia Hiers-Robinson Current-Use Scholarship;
- 3. Jake Hands Memorial Scholarship;
- 4. two scholarships presented by the New Mexico Water and Wastewater Association; and
- two scholarships presented by the Southwest Section of the New Mexico Water and Wastewater Association.

Additional Graduation Requirements

To receive either an associate degree or a certificate of completion, students are required to obtain a Career Readiness Certificate in the areas of Applied Math, Workplace Documents, and Graphic Literacy at the appropriate level for their respective degree option. OETS 102 Career Readiness Certification Preparation, is a course offered to assist the student in their preparation to attain the required Career Readiness Certificates. A program advisor can provide additional information.

NOTE: Students must achieve a cumulative grade-point average of 2.0 with a final grade of *C*- or better in ENGL 1110G Composition I and a final grade of C- or better in all required WATR courses. The remaining courses are applicable toward the bachelor of applied studies degree offered by the NMSU College of Extended Learning. At least 36 hours of the technical requirements are applicable toward the bachelor's degree in agricultural and extension education offered by the College of Agricultural, Consumer and Environmental Sciences at New Mexico State University.

Water Technology - Associate of Water Technology (p. 313)

WATR 120. Introduction to Water Systems

3 Credits (3)

312

Introduction to and theory of groundwater sources, production, treatment, and distribution.

WATR 130. Wastewater Collection and Basic Treatment Systems 3 Credits (3)

Introduction to wastewater characteristics, collection, and basic treatment operations.

WATR 140. Applied Water and Wastewater Math I

3 Credits (3)

Introduction to basic water and wastewater mathematics, flows through distribution networks and collection systems, and fundamentals of flow measurement.

Prerequisite: CCDM 114 N or equivalent.

WATR 160. Systems Maintenance

4 Credits (2+4P)

Basic tools, equipment, maintenance schedules, chlorinator troubleshooting, and chlorine safety. Hands-on training with valves, pumps, meters and chlorination equipment.

WATR 175. Programmable Logic Controllers

2 Credits (2)

This course will introduce students to electrical safety, theory, and the function, operations, programming and troubleshooting of the PLC controlling common electrical components utilized in control circuits associated with the water and wastewater industry. Restricted to: Community Colleges only.

WATR 180. Water Chemistry

3 Credits (3)

Basic chemistry with applications to water and wastewater analysis. **Prerequisite:** CCDM 114 N or consent of instructor.

WATR 182. Water Chemistry Analysis

1 Credit (3P)

Beginning water and wastewater laboratory analysis including gravimetric, volumetric, and quality control techniques.

Prerequisite: CCDM 114 N or equivalent or consent of instructor.

WATR 190. Water and Wastewater Microbiology

3 Credits (3)

Overview of microorganisms associated with water and wastewater. Growth and reproduction, energy production, and methods of counting. **Prerequisite:** WATR 130, WATR 180, or consent of instructor.

WATR 192. Water and Wastewater Microbiological Analysis 1 Credit (3P)

Introduction to water and wastewater treatment operational tests such as BODs, solids testing, activated sludge control tests, use of microscope, and bacteriological techniques.

Prerequisites: WATR 130 and WATR 182, or consent of instructor.

WATR 200. Internship

3-5 Credits

On-the-job training/work experience with municipalities or industries, working in water or wastewater treatment plants, high purity water plants, industrial waste plants, distribution systems, or wastewater collection systems. May be repeated up to 5 credits. Consent of Instructor required. Restricted to: Water Technology majors. Graded: S/U Grading (S/U, Audit). Restricted to Community Colleges campuses only.

WATR 220. Water Treatment Systems

3 Credits (3)

Theory of water systems operation including surface water treatment, fluoridation, sodium zeolite softening, corrosion control, iron removal, various filtration methods, and overview of SDWA.

Prerequisites: WATR 180 and WATR 182 or consent of instructor.

WATR 222. Water Systems Operation

1 Credit (3P)

Operations of various water treatment systems including surface water treatment, sodium zeolite softeners, and various filtration methods.

Prerequisite: WATR 220 or consent of instructor.

WATR 230. Advanced Wastewater Treatment

4 Credits (4)

Calculations and operations involved in wastewater and water reclamation plants.

Prerequisites: WATR 140, WATR 190, and WATR 192, or consent of instructor.

WATR 232. Wastewater Systems Operations

1 Credit (3P)

Operation of pretreatment, primary, and biological treatment units.

Prerequisite: WATR 230 or consent of instructor.

WATR 240. Advanced Water and Wastewater Math II

3 Credits (2+2P)

Advanced water and wastewater mathematics. Flow measurement. Systems head and pump curves.

Prerequisites: WATR 140.

WATR 250. Municipal Systems Management

4 Credits (4)

Management of water utility systems including laws, finance, records, and safety.

Prerequisites: WATR 120, WATR 130.

WATR 270. Special Topics

1-4 Credits

Specific subjects to be announced in the Schedule of Classes. May be repeated for a maximum of 12 credits.

WATR 275. Certification Review

3 Credits (3)

Review of water and wastewater plant operations and laws in preparation for state certification exams. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): WATR 120, WATR 130, WATR 140, WATR 160.

WATR 285. High Purity Water Treatment Systems

3 Credits (3)

Principles of high purity water production including microfiltration, ultrafiltration, reverse osmosis, and deionization.

Prerequisite: WATR 220.

WATR 287. Advanced Water Chemistry Analysis 3 Credits (6P)

Sampling techniques, analysis, and evaluation of potable water contaminants using gravimetric, volumetric, spectrophotometric, and other instrumentation methods. May be repeated up to 3 credits.

Prerequisite(s)/Corequisite(s): WATR 285. Restricted to Community Colleges campuses only.

67-68

WATR 290. Advanced Wastewater Microbiology and Chemistry 3 Credits (3)

Covers NPDES permits and DMR calculations and reporting; 503 sludge regs, including pathogen and vector attraction reduction and pollutants; wetlands, composting, and wastewater treatment ponds microbiology; activated sludge bulking and foaming microbiology and treatment; and use of selector to remove nutrients and prevent the growth of filamentous bacteria.

Prerequisite: WATR 190, WATR 192.

WATR 292. Advanced Wastewater Analysis 3 Credits (6P)

Covers sampling techniques, analysis, and evaluation of wastewater contaminants using gravimetric, volumetric, spectrophotometric, and other instrumentation methods.

Prerequisite: WATR 190 and WATR 192.

Name: Terry Mount, Department Chair

Office Location: DATS 155A

Phone: (575) 527-7584

Website: https://dacc.nmsu.edu/watr/

Water Technology - Associate of Water Technology

Doña Ana Community College 2020-21 Catalog

(67-68 credits)

NOTE: Students must earn a final grade of C- or better in all required WATR courses/Technical Requirements and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 67 credits (67-68 of credits listed for degree). Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits

General Education

Select one course from four of the following six content areas for a total of 12-14 tredits ^{1, 2}

This degree requires courses from Area I; students must select three courses from the remaining areas to complete General Education

	requirements.		
	Area I: Communio	cation	
	ENGL 1110G	Composition I 3	
	Area II: Mathema	tics	
Area III: Laboratory Sciences ⁴			
Area IV: Social/Behavioral Sciences ⁵			
	Area V: Humanitie	es ⁶	
	Area VI: Creative and Fine Arts ⁷		
	General Education Ele	ective	
	COMM 1115G	Introduction to Communication	on ³ 3

Major Requirements

Technical Requirements	S	
WATR 120	Introduction to Water Systems	3
WATR 130	Wastewater Collection and Basic Treatment Systems	3
WATR 140	Applied Water and Wastewater Math I	3
WATR 160	Systems Maintenance	4
WATR 175	Programmable Logic Controllers	2
WATR 180	Water Chemistry	3
WATR 182	Water Chemistry Analysis	1
WATR 190	Water and Wastewater Microbiology	3
WATR 192	Water and Wastewater Microbiological Analysis	1
WATR 200	Internship	3
WATR 220	Water Treatment Systems	3
WATR 222	Water Systems Operation	1
WATR 230	Advanced Wastewater Treatment	4
WATR 232	Wastewater Systems Operations	1
WATR 240	Advanced Water and Wastewater Math II	3
WATR 250	Municipal Systems Management	4
WATR 275	Certification Review	3
Select one from the fo	llowing:	6
WATR 285 & WATR 287	High Purity Water Treatment Systems and Advanced Water Chemistry Analysis	
WATR 290 & WATR 292	Advanced Wastewater Microbiology and Chemistry and Advanced Wastewater Analysis	

Each course selected must be from a different area and students cannot take multiple courses in the same area.

See the <u>General Education</u> (p. 52) section of the catalog for a full list of courses.

Courses are identical to those offered at New Mexico State University Las Cruces (main) Campus.

⁴ Area III: Laboratory Sciences Course Recommendations:

· ASTR 1115G Introduction Astro (lec+lab)

Total Credits

- BIOL 1120G Human Biology/BIOL 1120L Human Biology Laboratory
- BIOL 2610G Principles of Biology: Biodiversity, Ecology, and Evolution/BIOL 2610L Principles of Biology: Biodiversity, Ecology, and Evolution Laboratory
- CHEM 1120G Introduction to Chemistry Lecture and Laboratory (non majors)
- · GEOG 1110G Physical Geography
- PHYS 1115G Survey of Physics with Lab
- PHYS 1230G Algebra-Based Physics I/PHYS 1230L Algebra-Based Physics I Lab

5 Area IV: Social/Behavioral Sciences Course Recommendations

- · ANTH 1137G Human Ancestors
- · ANTH 1115G Introduction to Anthropology
- · ANTH 1160G World Archaeology
- · ECON 1110G Survey of Economics
- · ECON 2110G Macroeconomic Principles
- ECON 2120G Microeconomics Principles
- · GEOG 1120G World Regional Geography
- · POLS 1120G American National Government
- · POLS 1110G Introduction to Political Science
- · POLS 1130G Issues in American Politics
- · PSYC 1110G Introduction to Psychology
- · SOCI 1110G Introduction to Sociology
- · SOCI 2310G Contemporary Social Problems

⁶ Area V: Humanities Course Recommendations

- · HIST 1150G Western Civilization I
- · HIST 1160G Western Civilization II
- HIST 1110G United States History I
- · HIST 1120G United States History II
- PHIL 1115G Introduction to Philosophy
- · PHIL 1120G Logic, Reasoning, & Critical Thinking
- · PHIL 2110G Introduction to Ethics

Area VI: Creative and Fine Arts Course Recommendations

- · ARTH 1115G Orientation in Art
- · ARTS 1145G Visual Concepts
- MUSC 1110G Music Appreciation: Jazz
- · MUSC 1130G Music Appreciation: Western Music

(67-70 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must receive a final grade of C- or better in all required WATR courses/Technical Requirements and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 67 credits (67-70 of credits listed for degree). Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course	Title	Credits
Semester 1		
WATR 120	Introduction to Water Systems	3
WATR 130	Wastewater Collection and Basic Treatment Systems	3
WATR 140	Applied Water and Wastewater Math I	3
WATR 160	Systems Maintenance	4
WATR 180	Water Chemistry	3

WATR 182	Water Chemistry Analysis	1
	Credits	17
Semester 2	5 5 6 6 7 1 15	
	ns – English Composition Level 1	4
ENGL 1110G	Composition I	
Education Areas II, III,	ı - Choose one course from different NM General IV, V, and VI. A total of 3 courses from different commended courses include:	3-4
Area II: Mathematics (3-4 credits) - Choose one course from Area II of	
the NM General Educa	tion section in the NMSU/DACC Catalog.	
Area III: Laboratory Sc	iences	
ASTR 1115G	Introduction Astro (lec+lab)	
BIOL 1120G & BIOL 1120L	Human Biology and Human Biology Laboratory	
BIOL 2610G	Principles of Biology: Biodiversity, Ecology, and	
& BIOL 2610L	Evolution and Principles of Biology: Biodiversity, Ecology, and Evolution Laboratory	
CHEM 1120G	Introduction to Chemistry Lecture and	
0.1.2.iii 1.200	Laboratory (non majors)	
GEOG 1110G	Physical Geography	
PHYS 1115G	Survey of Physics with Lab	
PHYS 1230G & PHYS 1230L	Algebra-Based Physics I and Algebra-Based Physics I Lab	
Area IV: Social/Behavi	· ·	
ANTH 1115G	Introduction to Anthropology	
ANTH 1137G	Human Ancestors	
ANTH 1160G	World Archaeology	
ECON 1110G	Survey of Economics	
ECON 2110G	Macroeconomic Principles	
ECON 2120G	Microeconomics Principles	
GEOG 1120G	World Regional Geography	
POLS 1110G	Introduction to Political Science	
POLS 1120G	American National Government	
POLS 1130G	Issues in American Politics	
PSYC 1110G	Introduction to Psychology	
SOCI 1110G	Introduction to Sociology	
SOCI 2310G	Contemporary Social Problems	
Area V: Humanities	contemporary costain resistance	
HIST 1110G	United States History I	
HIST 1120G	United States History II	
HIST 1150G	Western Civilization I	
HIST 1160G	Western Civilization II	
PHIL 1115G	Introduction to Philosophy	
PHIL 1120G	Logic, Reasoning, & Critical Thinking	
PHIL 2110G	Introduction to Ethics	
Area VI: Creative and F	ine Arts	
ARTH 1115G	Orientation in Art	
ARTS 1145G	Visual Concepts	
MUSC 1110G	Music Appreciation: Jazz	
MUSC 1130G	Music Appreciation: Western Music	
Area III: Laboratory Sc	**	
ASTR 1115G	Introduction Astro (lec+lab)	
BIOL 1120G	Human Biology	
BIOL 2610G	Principles of Biology: Biodiversity, Ecology, and Evolution	
CUEM 11000		
CHEM 1120G	Introduction to Chemistry Lecture and Laboratory (non majors)	

GEOG 1110G	Physical Geography	
PHYS 1115G	Survey of Physics with Lab	
PHYS 1230G & PHYS 1230L	Algebra-Based Physics I and Algebra-Based Physics I Lab	
Area IV: Social/Beha	vioral Sciences (3 credits)	
ANTH 1115G	Introduction to Anthropology	
ANTH 1137G	Human Ancestors	
ANTH 1160G	World Archaeology	
ECON 1110G	Survey of Economics	
ECON 2110G	Macroeconomic Principles	
ECON 2120G	Microeconomics Principles	
GEOG 1120G	World Regional Geography	
POLS 1110G	Introduction to Political Science	
POLS 1120G	American National Government	
POLS 1130G	Issues in American Politics	
PSYC 1110G	Introduction to Psychology	
SOCI 1110G	Introduction to Sociology	
SOCI 2310G	Contemporary Social Problems	
Area V: Humanities (3 credits)	
HIST 1110G	United States History I	
HIST 1120G	United States History II	
HIST 1150G	Western Civilization I	
HIST 1160G	Western Civilization II	
PHIL 1115G	Introduction to Philosophy	
PHIL 1120G	Logic, Reasoning, & Critical Thinking	
PHIL 2110G	Introduction to Ethics	
Area VI: Creative and	I Fine Arts (3 credits)	
ARTH 1115G	Orientation in Art	
ARTS 1145G	Visual Concepts	
MUSC 1110G	Music Appreciation: Jazz	
MUSC 1130G	Music Appreciation: Western Music	
WATR 175	Programmable Logic Controllers	2
WATR 190	Water and Wastewater Microbiology	3
WATR 192	Water and Wastewater Microbiological Analysis	1
WATR 220	Water Treatment Systems	3
WATR 222	Water Systems Operation	1
	Credits	17-18
Semester 3		
WATR 200	Internship (3-5 credits)	3
	Credits	3
Semester 4		
General Education E	lective – Area I: Communications - Oral	3
Communications		
COMM 1115G	Introduction to Communication	
WATR 230	Advanced Wastewater Treatment	4
WATR 232	Wastewater Systems Operations	1
WATR 240	Advanced Water and Wastewater Math II	3
Choose one from the	e following:	6
WATR 285 & WATR 287	High Purity Water Treatment Systems and Advanced Water Chemistry Analysis	
WATR 290 & WATR 292	Advanced Wastewater Microbiology and Chemistry	
	and Advanced Wastewater Analysis	
	Credits	17

Semester 5

NM General Education - Choose one course from different NM General 3-4 Education Areas II, III, IV, V, and VI. A total of 3 courses from different areas are required. A list of recommended courses can be found in Semester 2. NM General Education - Choose one course from different NM General 3-4 Education Areas II, III, IV, V, and VI. A total of 3 courses from different areas are required. A list of recommended courses can be found in Semester 2. WATR 250 Municipal Systems Management 4 Certification Review 3 **WATR 275** Credits 13-15 **Total Credits** 67-70

Water Technology - Certificate of Completion

Doña Ana Community College 2020-21 Catalog

(28 credits)

Graduates of the one-year program have the capability to work in a municipal water or wastewater treatment plant.

NOTE: Students must earn a final grade of C- or better in all required WATR courses/Technical Requirements and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University certificate requirements, which include: General Education requirements and elective credits to total at least 28 credits (28 of credits listed for degree). Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits	
Related Requirements			
ENGL 1110G	Composition I 1	4	
Technical Requirement	nts		
WATR 120	Introduction to Water Systems	3	
WATR 130	Wastewater Collection and Basic Treatment Systems	3	
WATR 140	Applied Water and Wastewater Math I	3	
WATR 160	Systems Maintenance	4	
WATR 180	Water Chemistry	3	
WATR 182	Water Chemistry Analysis	1	
WATR 190	Water and Wastewater Microbiology	3	
WATR 192	Water and Wastewater Microbiological Analysis	1	
WATR 200	Internship	3	
Total Credits		28	

Course(s) are identical to those offered at New Mexico State University Las Cruces (main) Campus.

(28 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

Graduates of the one-year program have the capability to work in a municipal water or wastewater treatment plant.

NOTE: Students must earn a final grade of C- or better in all required WATR courses/Technical Requirements and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University certificate requirements, which include: General Education requirements and elective credits to total at least 28 credits (28 of credits listed for degree). Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course	Title	Credits
Semester 1		
WATR 120	Introduction to Water Systems	3
WATR 130	Wastewater Collection and Basic Treatment Systems	
WATR 140	Applied Water and Wastewater Math I	3
WATR 160	Systems Maintenance	4
	Credits	13
Semester 2		
Area I: Communicat	ions – English Composition Level 1	4
ENGL 1110G	Composition I	
WATR 180	Water Chemistry	3
WATR 182	Water Chemistry Analysis	1
WATR 190	Water and Wastewater Microbiology	3
WATR 192	Water and Wastewater Microbiological Analysis	1
WATR 200	Internship (3-5)	3
	Credits	15
	Total Credits	28

Welding Technology AWS S.E.N.S.E. Advanced Welder Associate of Applied Science Degree

Welders are in greater demand today than at any time during the past 30 years, and the job outlook is expected to remain excellent throughout the foreseeable future. They are needed in energy exploration and production and are required in virtually every field or industry that uses parts made of metal.

Simply stated, welders are people who join metals such as steel, stainless steel, aluminum, titanium, brass, bronze, copper, and nickel. Welding processes vary depending on the application. Extremely delicate and precise items, such as aerospace components and jewelry, may be welded using electron beams, lasers, and plasma, while huge structures

for buildings and bridges are typically welded using submerged arc and flux core. Welding may take place in almost any setting: in a laboratory, out-of-doors, or even underwater, as in the case of offshore, oil-and-gas platform construction.

According to the US Department of Labor, job prospects for welders are excellent, with projected job growth in New Mexico estimated at 25.5 percent over the next six years, and 5 percent nationally through 2014, translating to 264,000 additional jobs. Increases in welder wages have kept pace with or exceeded those of other occupations since 2002.

The DACC Welding Technology program is nationally accredited by the American Welding Society (AWS), and is taught by nationally qualified instructors. DACC welding instructors have extensive welding experience (nuclear, pressure vessels, aerospace, etc.), numeous welding certifications (SMAW, GTAW, GMAW, FCAW, SAW), and extensive experience teaching welding technology. Several DACC welding instructors are AWS Certified Welding Educators (CWE). several of which are also AWS Certified Welding Inspectors (CWI).

The DACC Welding Technology program performs hundreds of welder performance qualification tests every year. DACC welding instructors hold AWS national endorsements for six welding/fabrication codes.

The program is competency and performance based, consisting of lectures and hands-on laboratory exercises. Students learn to weld steels, stainless steels, and aluminum alloy plate and pipe with five welding processes. They also learn basic fabrication skills, oxy-fuel cutting, plasma cutting, and air-carbon arc cutting. The DACC Welding Technology Program is one of a handful of programs, nationwide, that has an orbital TIG unit that allows students to join tubing as small as one-quarter inch in diameter. Students are also exposed to heat treating of steel and its effects with a heat-treating oven.

Students are eligible to join SkillsUSA, an organization for high school and postsecondary students that promotes leadership and sponsors skills and leadership competitions at the state and national levels. In addition, students may become members of the American Welding Society (AWS) and participate in the activities of the new AWS El Paso Section, of which two DACC welding instructors are founding members and three have served as officers.

All students who complete the certificate or associate degree will graduate as certified welders in one or more welding processes on steel, stainless steel, and/or aluminum. (It is important to note that, although some local welding jobs may not currently require certification, nearly all welding jobs nationwide do require it.) DACC welding instructors are well known nationally and have many job contacts in the United States.

Since the technical requirements for the certificate are the same as those for the associate degree, a student may complete the certificate program first and then later apply all the credits earned in the certificate program toward the associate degree. This associate degree then may be applied in its entirety toward the bachelor of applied studies degree offered by NMSU. Alternatively, those planning to teach at the secondary level may apply up to 36 credits earned in the Welding Technology associate degree program toward a bachelor of science degree in Agricultural and Extension Education.

To enter the Welding Technology program, a high school diploma or GED is required, along with good overall health, eyesight, and handeye coordination. Students must purchase tools and personal safety equipment, usually costing about \$1000.

Whether taking classes or working on a job site, students enrolled in this program will be required to perform the same job duties and meet the same physical requirements that they will as a graduate in the field. These requirements include the ability to achieve performance qualifications using a variety or processes while welding materials in different positions. Depending where they find employment, graduates may be required to work in extreme temperatures, to lift and safely move 50 pounds, to have good eye-hand coordination, to work safely around compressed gasses and electrical equipment, to ascend and descend ladders, to work safely in confined spaces and awkward welding positions, and to tolerate a noisy working environment.

Additional Graduation Requirements

To receive either an associate degree or a certificate of completion, students are required to obtain a Career Readiness Certificate in the areas of Applied Math, Workplace Documents, and Graphic Literacy at the appropriate level for their respective degree option. OETS 102 Career Readiness Certification Preparation, is a course offered to assist the student in their preparation to attain the required Career Readiness Certificates. A program advisor can provide additional information.

Welding Technology - Associate of Applied Science (p. 318)

Welding Technology - Certificate of Completion (p. 320)

WELD 100. Structural Welding I

6 Credits (3+6P)

Development of basic skills in SMAW, OFC, and OFW in accordance with the AWS entry-level welder program.

WELD 102. Welding Fundamentals

3 Credits (2+2P)

Survey of welding and cutting processes for nonmajors. Classroom instruction and laboratory work with OFC/OFW, SMAW, GMAW, FCAW, and plasma arc cutting.

WELD 110. Blueprint Reading (Welding)

3 Credits

Interpretation of prints related to welding. Emphasis on AWS standard symbols for welding, brazing, and nondestructive examination.

WELD 112. Professional Development and Leadership 1 Credit

As members and/or officers of various student professional organizations, students gain experience in leadership, team building, and community service. Students competing or participating in Skills USA are required to register for the course. May be repeated up to 6 credits. Consent of Instructor required. Restricted to: WELD majors. S/U Grading (S/U, Audit). Restricted to: Community Colleges only.

WELD 120. Basic Metallurgy

3 Credits

Properties of ferrous and nonferrous materials. Service conditions and heat treatment of metals related to welding trade.

Prerequisites: WELD 100 or consent of instructor.

WELD 125. Introduction to Pipe Welding

3 Credits (2+2P)

Pipe fit-up and welding techniques for pipe fitting and pipe weld joint using SMAW, GMAW, GTAW, and FCAW, 2G welding of pipe. Restricted to: Community Colleges only.

Prerequisite(s): WELD 100, WELD 130, and WELD 140, or consent of instructor.

WELD 130. Introduction to GMAW MIG)

3 Credits (2+2P)

Development of basic skills with gas metal arc welding (MIG) in accordance with AWS entry-level welder objectives. Wire electrodes, shielding/purge gases, and modes of metal transfer.

WELD 140. Introduction to GTAW TIG)

3 Credits (2+2P)

Development for basic skills with gas tungsten arc welding (TIG) in accordance with AWS entry/advanced welder objectives. Welding mild steel, tungsten electrode preparation, filler wire selection, and equipment set-up.

WELD 150. Pipe Welding II

3 Credits (2+2P)

Continuation of <u>WELD 125</u>; with fillet and groove welded joints in a horizontal fixed and 45-degree fixed positions (5-F, 5-G, 6-F, 6-G).

Prerequisite: WELD 125.

WELD 160. Introduction to SAW and FCAW

3 Credits (2+2P)

Submerged arc and flux-cored arc welding. Demonstrations and practice with machine travel submerged arc welding (SAW), flux-cored arc welding (FCAW-G, FCAW-S) on mild steel plate and pipe. Restricted to: Community Colleges only.

WELD 170. Welded Fabrication

3 Credits (1+4P)

Development of fabrication skills including basic layout, measuring, and utilization of various welding processes including out-of-position welding. Use of common shop tools.

Prerequisites: WELD 100, WELD 110, WELD 130, and OETS 104 or

OETS 118.

WELD 180. GTAW II

3 Credits (2+2P)

Continuation of <u>WELD 140</u>. Development of more advanced GTAW skills. Emphasis on pipe welding with mild steel, stainless steel, and aluminum. **Prerequisite:** WELD 140 or consent of instructor.

WELD 190. Welded Art

3 Credits (1+4P)

Students explore the possibilities of welded art in the form of sculpture, jewelry, furniture and as a framework to support other art media. Offered as an elective for students who wish to create art using welding.

Prerequisite: WELD 102 or consent of instructor.

WELD 205. Welding Equipment Maintenance 3 Credits (2+2P)

Hands-on experience in the maintenance and repair of welding equipment, including welding machines and associate shop equipment, as well as the development of preventative maintenance programs. Basic safety, including MSDS and Right-to-Know will be introduced. Restricted to: Community Colleges only.

Prerequisite(s): WELD 100, WELD 130, WELD 140, WELD 160.

WELD 211. Welder Qualification

6 Credits (3+6P)

Laboratory and classroom instruction on AWS and ASME Welder Performance Qualification Tests. All position plate and pipe techniques and tests for SMAW, GMAW, GTAW, FCAW, and SAW. Nondestructive and destructive examination methods. Basics of welding codes. Restricted to majors.

Prerequisites: <u>OETS 104</u> or <u>OETS 118</u>; and <u>WELD 100</u>, <u>WELD 110</u>, <u>WELD 130</u>, <u>WELD 130</u>, <u>WELD 140</u>, <u>WELD 160</u> and <u>WELD 180</u> or consent of instructor.

WELD 221. Cooperative Experience I

1-6 Credits

Supervised cooperative work program. Student is employed in an approved occupation and supervised and rated by the employer and instructor. Student will meet in a weekly class. Graded S/U. Restricted to majors.

Prerequisites: WELD 100 or WELD 101 and consent of instructor.

WELD 230. Weld Testing 3 Credits (2+2P)

Covers destructive and nondestructive examination methods used to test welds. Tensile, compression, bend, hardness, impact, visual, dyepenetrant, magnetic particle, ultrasound, and radiographic methods of testing/examination. Restricted to: Community Colleges only.

Prerequisite(s): WELD 100, WELD 130, WELD 140, WELD 211, and OETS 104, or consent of instructor.

WELD 255. Special Problems in Welding Technology 1-6 Credits

Individual studies in areas of welding technology. May be repeated for a maximum of 12 credits.

Prerequisite: consent of instructor.

WELD 295. Special Topics

1-4 Credits

Topics to be announced in the Schedule of Classes. May be repeated for a maximum of 12 credits.

Name: Terry Mount, Department Chair

Office Location: DATS 155A

Phone: (575) 527-7593, 528-7018 or 527-7597

Website: https://dacc.nmsu.edu/weld/

Welding Technology - Associate of Applied Science

Doña Ana Community College 2020-21 Catalog

(60-61 credits)

NOTE: Students must receive a final grade of C- or better in all required WELD courses/Technical Requirements and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 60 credits (60-61 of credits listed for degree). Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix Title Credits

General Education

Select one course from four of the following six content areas for a total of 12-14 redits ^{1, 2}

This degree requires courses from Area I; students must select three courses from the remaining areas to complete General Education requirements

Area I: Communications

ENGL 1110G	Composition I ³	
Area III: Labora	tory Sciences ⁴	
Area IV: Social/	Behavioral Sciences ⁵	
Area V: Humani	ties ⁶	
Area VI: Creativ	e and Fine Arts ⁷	
General Education	Elective	
COMM 1115G	Introduction to Communication ³	3
Core Requirements	s	
OETS 118	Mathematics for Technicians	3
Approved technica	al elective	2
Major Requiremen	ts	
Technical Requirem	nents	
WELD 100	Structural Welding I	6
WELD 110	Blueprint Reading (Welding)	3
WELD 120	Basic Metallurgy	3
WELD 125	Introduction to Pipe Welding	3
WELD 130	Introduction to GMAW MIG)	3
WELD 140	Introduction to GTAW TIG)	3
WELD 150	Pipe Welding II	3
WELD 160	Introduction to SAW and FCAW	3
WELD 170	Welded Fabrication	3
WELD 180	GTAW II	3
WELD 211	Welder Qualification	6
Total Credits		60-61

- Each course selected must be from a different area and students cannot take multiple courses in the same area.
- See the <u>General Education</u> (p. 52) section of the catalog for a full list of courses
- Courses are identical to those offered at New Mexico State University Las Cruces (main) Campus.

Area III: Laboratory Sciences Course Recommendations:

- · ASTR 1115G Introduction Astro (lec+lab)
- BIOL 1120G Human Biology/BIOL 1120L Human Biology Laboratory
- BIOL 2610G Principles of Biology: Biodiversity, Ecology, and Evolution/BIOL 2610L Principles of Biology: Biodiversity, Ecology, and Evolution Laboratory
- CHEM 1120G Introduction to Chemistry Lecture and Laboratory (non majors)
- GEOG 1110G Physical Geography
- PHYS 1115G Survey of Physics with Lab
- PHYS 1230G Algebra-Based Physics I/PHYS 1230L Algebra-Based Physics II ab

Area IV: Social/Behavioral Sciences Course Recommendations

- ANTH 1137G Human Ancestors
- · ANTH 1115G Introduction to Anthropology
- ANTH 1160G World Archaeology
- ECON 1110G Survey of Economics
- ECON 2110G Macroeconomic Principles
- <u>ECON 2120G</u> Microecononics Principles
- · GEOG 1120G World Regional Geography
- <u>POLS 1120G</u> American National Government
- POLS 1110G Introduction to Political Science
- POLS 1130G Issues in American Politics
- · PSYC 1110G Introduction to Psychology
- SOCI 1110G Introduction to Sociology
- · SOCI 2310G Contemporary Social Problems

- ⁶ Area V: Humanities Course Recommendations
 - HIST 1150G Western Civilization I
 - HIST 1160G Western Civilization II
 - · HIST 1110G United States History I
 - HIST 1120G United States History II
 - · PHIL 1115G Introduction to Philosophy
 - PHIL 1120G Logic, Reasoning, & Critical Thinking
 - PHIL 2110G Introduction to Ethics

Area VI: Creative and Fine Arts Course Recommendations

- · ARTH 1115G Orientation in Art
- · ARTS 1145G Visual Concepts
- · MUSC 1110G Music Appreciation: Jazz
- MUSC 1130G Music Appreciation: Western Music

(60-61 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must receive a final grade of C- or better in all required WELD courses/Technical Requirements and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in ENGL 1110G Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 60 credits (60-61 of credits listed for degree). Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course	Title	Credits
Semester 1		
OETS 118	Mathematics for Technicians	3
WELD 100	Structural Welding I	6
WELD 130	Introduction to GMAW MIG)	3
WELD 160	Introduction to SAW and FCAW	3
	Credits	15
Semester 2		
Area I: Communicat	ions – English Composition Level 1	4
ENGL 1110G	Composition I	
Education Areas II, I	on - Choose one course from different NM General II, IV, V, and VI. A total of 3 courses from different Recommended courses include:	3-4
	s (3-4 credits) - Choose one course from Area II of cation section in the NMSU/DACC Catalog.	
Area III: Laboratory	Sciences	
ASTR 1115G	Introduction Astro (lec+lab)	
BIOL 1120G	Human Biology	
BIOL 2610G	Principles of Biology: Biodiversity, Ecology, and Evolution	
CHEM 1120G	Introduction to Chemistry Lecture and Laboratory (non majors)	
GEOG 1110G	Physical Geography	
PHYS 1115G	Survey of Physics with Lab	

PHYS 1230G	Algebra-Based Physics I	
& PHYS 1230L	and Algebra-Based Physics I Lab	
Area IV: Social/Behavi		
ANTH 1115G ANTH 1137G	Introduction to Anthropology	
7	Human Ancestors	
ANTH 1160G	World Archaeology	
ECON 1110G	Survey of Economics	
ECON 2110G	Macroeconomic Principles	
ECON 2120G	Microeconomics Principles	
GEOG 1120G	World Regional Geography	
POLS 1110G	Introduction to Political Science	
POLS 1120G	American National Government	
POLS 1130G	Issues in American Politics	
PSYC 1110G	Introduction to Psychology	
SOCI 1110G	Introduction to Sociology	
SOCI 2310G	Contemporary Social Problems	
Area V: Humanities		
HIST 1110G	United States History I	
HIST 1120G	United States History II	
HIST 1150G	Western Civilization I	
HIST 1160G	Western Civilization II	
PHIL 1115G	Introduction to Philosophy	
PHIL 1120G	Logic, Reasoning, & Critical Thinking	
PHIL 2110G	Introduction to Ethics	
Area VI: Creative and	Fine Arts	
ARTH 1115G	Orientation in Art	
ARTS 1145G	Visual Concepts	
MUSC 1110G	Music Appreciation: Jazz	
MUSC 1130G	Music Appreciation: Western Music	
WELD 110	Blueprint Reading (Welding)	3
WELD 140	Introduction to GTAW TIG)	3
WELD 180	GTAW II	3
	Credits	16-17
Semester 3		
NM General Education	n - Choose one course from different NM General	3-4
	IV, V, and VI. A total of 3 courses from different	
areas are required. A l Semester 2.	ist of recommended courses can be found in	
WELD 120	Pagio Motellurgy	3
WELD 120 WELD 125	Basic Metallurgy Introduction to Pipe Welding	3
WELD 150	, ,	3
WELD 150 WELD 170	Pipe Welding II Welded Fabrication	
WELD 170		3
	Credits	15-16
Semester 4		
General Education Ele	ective – Area I: Communications - Oral	3
COMM 1115G	Introduction to Communication	
	n - Choose one course from different NM General	3-4
	IV, V, and VI. A total of 3 courses from different	3-4
	ist of recommended courses can be found in	
Semester 2.		
WELD 211	Welder Qualification	6
Approved Technical E	lective	2
	Credits	14-15
	Total Credits	60-63

Welding Technology - Certificate of Completion

Doña Ana Community College 2020-21 Catalog

(46-47 credits)

NOTE: Students must earn a final grade of C- or better in all required WELD *courses/Technical Requirements* and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in <u>ENGL 1110G</u> Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 46 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
Related Requirements	s	
OETS 103	Technical Career Skills	4
or ENGL 1110G	Composition I	
OETS 104	Basic Mathematics for Technicians	3-4
or OETS 118	Mathematics for Technicians	
Technical Requirement	nts	
WELD 100	Structural Welding I	6
WELD 110	Blueprint Reading (Welding)	3
WELD 120	Basic Metallurgy	3
WELD 125	Introduction to Pipe Welding	3
WELD 130	Introduction to GMAW MIG)	3
WELD 140	Introduction to GTAW TIG)	3
WELD 150	Pipe Welding II	3
WELD 160	Introduction to SAW and FCAW	3
WELD 170	Welded Fabrication	3
WELD 180	GTAW II	3
WELD 211	Welder Qualification	6
Total Credits		46-47

(46-47 credits)

A Suggested Plan of Study

The contents of this roadmap may vary depending on initial student placement in mathematics and English. This is only a suggested plan of study for students, and is not intended as a contract. Individual student academic plans may vary. Please contact your academic advisor to create a plan that works for you. Course availability may vary from fall to spring semester and may be subject to modification or change.

NOTE: Students must earn a final grade of C- or better in all required WELD *courses/Technical Requirements* and achieve a cumulative grade-point average of at least 2.0. A grade of C- or better is required in <u>ENGL 1110G</u> Composition I and designated Mathematics courses.

Students must complete all University degree requirements, which include: General Education requirements and elective credits to total at least 46 credits. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Course	Title	Credits
Semester 1		
ENGL 1110G or OETS 103	Composition I or Technical Career Skills	4
WELD 100	Structural Welding I	6
WELD 130	Introduction to GMAW MIG)	3
WELD 160	Introduction to SAW and FCAW	3
	Credits	16
Semester 2		
OETS 104 or OETS 118	Basic Mathematics for Technicians or Mathematics for Technicians	3-4
WELD 110	Blueprint Reading (Welding)	3
WELD 140	Introduction to GTAW TIG)	3
WELD 180	GTAW II	3
	Credits	12-13
Semester 3		
WELD 120	Basic Metallurgy	3
WELD 125	Introduction to Pipe Welding	3
WELD 150	Pipe Welding II	3
WELD 170	Welded Fabrication	3
	Credits	12
Semester 4		
WELD 211	Welder Qualification	6
	Credits	6
	Total Credits	46-47

Noncredit Programs

DACC offers noncredit programs focusing on building the skills of the local workforce.

- Adult Education imparts the basic skills and general knowledge needed to undertake job-related training.
- The **Small Business Development Center** assists owners of existing businesses and start-ups.
- Workforce Development and Career Readiness offers opportunities for short, non-credit training, professional skill development, lifelong learning, and career exploration.

More information about any of these programs can be accessed from the menu to the left.

Adult Education

Adult Education (AE) presents an opportunity for members of the Doña Ana community to improve their quality of life through the acquisition and improvement of basic academic skills at no charge to the student. AE provides a variety of educational programs and student support services that help individuals achieve their goals and transition to college and family sustaining jobs.

Adult Education instructional programs and classes include basic literacy, English as a Second Language (ESL), and high school equivalency.

This comprehensive program includes instruction in many different areas including Civics and U.S. citizenship, computer literacy, and work readiness. Student support services include basic skills assessments, student orientations, advising and referral services, individual and small group tutoring, and assistance with college transition.

Free, Noncredit Instructional Programs

High School Equivalency. Those 16 years of age or older who are wanting to improve or gain basic skills may attend classes. These classes focus on Language Arts and Math, with supplemental instruction provided in Social Studies, Civics, and Science. Classes prepare students to successfully pass the mathematics, reading, social studies, and science high school equivalency tests; however, a student may attend classes even if they already have a secondary credential.

AE offers high school equivalency instruction in English and Spanish. Students who attend Spanish high school equivalency classes are required to concurrently enroll in and attend ESL classes. Students who are under 18 may attend the high school equivalency program with an official withdrawal notice from the public schools.

ESL—English as a Second Language. This program helps improve English language skills for non-native speakers. Students acquire academic English skills (reading, writing, and grammar), build their vocabulary, and increase conversation fluency and listening comprehension. Small group instruction is available at each center to support learning.

ESL students who are ready to exit the program and transition to college are assisted with the process to help them experience success.

Enrolling in Classes

Each fall, spring, and summer semester, AE offers classes in English as a Second Language, and high school equivalency in English and Spanish. Classes meet at Doña Ana Community College and at several other locations throughout Doña Ana County. Classes meet a minimum of 6 hours a week, with some intensive classes meeting as much as 20 hours a week

New or inactive students must attend new student orientation. This orientation meets over several days and includes discussion of program requirements, and what a student can expect in class. Students are assessed during orientation to determine their Educational Functioning Level, and to determine which class best meets their individual needs and goals. Adult Education uses two different assessments: the Test of Adult Basic Education (TABE) and the Test of Adult Education Complete Language Assessment System-English (TABE CLAS-E).

Students are strongly encouraged to pre-register two to three weeks prior to the beginning of each semester. After pretesting is completed, students are advised regarding their pretest scores, and together, the student and an advisor create a plan to address the student's specific learning needs, educational goal(s) and strengths, and the learning process. Centers have a comprehensive inventory of textbooks, and excellent multi-media educational software to provide instruction in a variety of presentation modalities.

Support Services for Student Success

At the adult learning centers, many of the following types of student support can be found: pretesting, academic advising, new student orientations, guidance with goal-setting and college transition, student follow-up, information and referral, and career guidance.

Tutoring Services

Students may receive free tutoring at any DACC adult learning center. Trained tutors provide personal assistance and small-group instruction in reading and writing, mathematics, grammar, ESL, and other basic skills.

AE staff understand that learning takes time and make an extra effort to meet individual learner needs.

Adult Education offers students many opportunities to discover their learning styles, and create effective strategies to help students truly learn the material covered in their classes. The learning centers throughout the county have resources, information, and staff that can help improve time management, listening, note taking, and test-taking skills. Students are encouraged to explore their own learning preferences, and find a study style that enhances their strengths.

College Transition Advising

College Transition Advising, offered through AE, assists students in preparing for a successful experience in college. Advising is available for students at each of the learning centers and guides students in making a successful transition from AE to college. Students will become familiar with the admissions process, financial aid and scholarship opportunities, and career pathway options at DACC and NMSU. Call (575) 528-7038 for an appointment.

U.S. Citizenship Preparation

Civics and citizenship preparation are incorporated into every ESL class as part of the comprehensive program. In addition, each learning center periodically offers citizenship preparation workshops. Knowledgeable instructors teach U.S. history, government, citizens' rights, duties and responsibilities, requirements for U.S. citizenship, civic participation, basic reading, writing, and conversational English. Students who meet specific criteria may apply for a scholarship to help with the cost of filing for U.S. Citizenship.

Computer Literacy

Computer literacy is central to the modern workforce. AE students are able to participate in various computer literacy programs including one-on-one tutoring, and workshops. Computer literacy is also incorporated into the comprehensive adult education classroom program.

Locations

NOTE: Day and evening classes are available in the fall, spring, and summer semesters. Schedules vary and are subject to change, please call for current information.

Las Cruces

Quintana Adult Learning Center
Doña Ana Community College, room DALR-160
3400 South Espina St.
Las Cruces, NM 88003
Phone: (575) 527-7540, 527-7740

Toll Free: 1 (800) 903-7503 Fax: (575) 528-7065

Hours: Mon.-Fri., 8 a.m. - 5 p.m.

Mesquite Adult Learning Center

Located in the DACC Workforce Center 2345 Nevada Ave. Las Cruces, NM 88001 Phone: (575) 528-7479

Hours: Mon.-Fri., 8 a.m. - 7 p.m.

Anthony Area

Gadsden Adult Learning Center Located in the DACC Gadsden Center 1700 E. O'Hara Rd.

Anthony, NM 88021 Phone: (575) 882-6813 Hours: Mon.-Fri., 8 a.m. - 5 p.m.

Chaparral

Chaparral Adult Learning Center 755 Prescott Anthony Dr. Chaparral, NM 88081 Phone: (575) 824-2010

Hours: Mon.-Fri., 8 a.m. - 5 p.m.

Sunland Park

Sunland Park Adult Learning Center Located in the DACC Sunland Park Center

3365 McNutt Road & Santo Domingo Road Sunland Park, NM 88063

Phone: (575) 874-7790 Hours: Mon.-Fri., 8 a.m. - 5 p.m.

Small Business Development Center

Assistance for the Entrepreneur

Workforce Center 2345 E. Nevada Ave., Suite 101 Phone: (575) 527-7676 Fax: (575) 528-7432

Serving the residents of Doña Ana and Sierra counties, the Small Business Development Center (SBDC) at NMSU Doña Ana Community College can help you achieve your dreams! We offer no-cost, confidential, quality counseling and guidance for business owners, prospective owners, and managers. Whether you have been in business for some time, starting out, or purchasing a business, the SBDC can help you in addressing a multitude of issues.

Our team of experienced, professional business consultants can help you _

- Develop a business plan to start a new business or make an established business more efficient
- · Develop a marketing plan
- Learn effective record-keeping, management, accounting, and inventory control
- Create alternatives for solving business marketing issues
- · Find financial resources and apply for business loan packages
- Improve your business and management skills through seminars and workshops
- · Explore business ownership opportunities
- · Develop an exit or succession plan

Specialized Consulting

Specialized one-on-one, confidential consulting can help you develop an individualized plan, create alternatives for solving marketing problems, including record keeping, accounting, and inventory control.

Business Education

The SBDC staff offer individualized workshops in various topics such as business management, marketing, record keeping, and business planning. These workshops can help you avoid serious and costly mistakes.

The SBDC offers business consulting on a range of subjects, including business start-up, effective marketing strategies, writing a business plan,

business financials, and other areas of concern you may have identified. If needed, special arrangements can be made for an SBDC consultant to come to your business site to discuss strategies.

Center for Resource Information

Use our professional business publications, industry reports, demographic reports, and financial tools to gain a competitive advantage in your industry.

Let the SBDC be a partner you can count on. Our services are confidential and available at no or low cost to you. To make an appointment to discuss your needs, call (575) 527-7676, or visit us at http://www.nmsbdc.org/las-cruces.aspx.

Workforce Development and Career Readiness

DACC Workforce Development and Career Readiness (WDCR) offers opportunities for short, non-credit training programs, online and classroom-based professional skill development, lifelong learning, and career exploration and development to the community of Las Cruces and Doña Ana County. Community organizations, governmental offices, and local businesses and industries use the training services to provide customized education opportunities for their employees.

Workforce Center 2345 E. Nevada Ave. Las Cruces, NM Phone: (575) 527-7776

Email: ctp@nmsu.edu (%20ctp@nmsu.edu)

Customized Training Program (CTP)

Our goal is to work with businesses, government, and non-profit agencies in Doña Ana County and southern New Mexico to provide professional and technical training for the workforce. We work with employers to provide custom training programs that consider the unique needs of their workforce and the workforce of Doña Ana County. We identify specific training needs and goals and develop a custom training to address those needs. We follow up with assessments to evaluate the effectiveness of the training. Custom trainings can assist local employers in increasing employee satisfaction, reducing turnover, improving efficiency, and reducing costs. Please call 575-527-7776 to discuss training for your employees or for more information.

Professional and Workforce Development Courses

Employees who continuously strive to enhance their skills and abilities are more likely to earn promotions and better opportunities. WDCR offers several certificates and courses where professionals can gain new skills or develop the ones they have. WDCR offers non-credit training programs in the health, business, computer, and trades and manufacturing sectors. These training programs prepare participants for national industry certifications and licenses. Online training course are offered in partnership with Ed2go and courses can be found at ed2go.com/dacc or call for more information.

Lifelong Learning and Continuing Education Units (CEUs)

Lifelong learning is the continuous act of learning throughout a lifetime. WDCR, in partnership with Doña Ana Community College, offers a variety of professional and personal development courses. In addition, Continuing Education Units opportunities are offered in partnership with

DACC faculty and online education providers. Contact the appropriate department if your office or clinic requires assistance with continuing education units.

Youth Programs

Spring Break and summer programs are available through the Kids College and Career Camps. The programs focus on early career exploration and STEAM (Science, Technology, Engineering, Art, and Math) topics. Please visit the website for more information (https://dacc.nmsu.edu/ctp/kids-college).

Academy for Learning in Retirement

The Academy for Learning in Retirement provides educational opportunities for seniors. The program is offered in the spring and fall semesters and consists of monthly lecture series on current issues and topics. The fee for each presentation is \$4 for members and \$5 for non-members. The annual fee for membership is \$5. Please visit dacc.nmsu.edu/alr for more information or email nmsu.alr@gmail.com (%20nmsu.alr@gmail.com).

Career Services

The mission of career services at DACC is to assist students in reaching their personal and professional career goals. Services include career exploration and planning, job skills trainings, internships and other work-based learning opportunities, assistance with job searching and application documents, and connection to social services. These resources are available at no charge to credit and non-credit students. For more information about Career Services, please contact 575-527-7776 or visit dacc.nmsu.edu/ctp/career-readiness.

CDL Skills Exams

WDCR administers the skills exam for the Class A, Class B, and Class C commercial licenses. Drivers must provide their own properly insured and licensed vehicle for the exam, and they must have a current regular driver's license (D), current commercial learner's permit, and current medical card. The exams can usually be scheduled about a week from the time you register. The exam costs \$200, and can be paid by cash, money order, or credit card. Please call 575-528-7092 to schedule your skills test or for more information.

Please visit our website, <u>dacc.nmsu.edu/ctp</u> or call the office 575-527-7776 for updates and additional information about truck driving training.

Truck Driving Academy

DACC WDCR commercial truck driving program prepares participants to drive commercial trucks, semi tractor-trailers, and other Class A and Class B vehicles. Students prepare for the written exam and the driving skills portion of the CDL. The program assists students with employment skills, including financial skills, job search and job placement. The CDL program is seven weeks with 104 classroom hours and 44 BTW drive hours for each student. A maximum of 4 students per course. Please visit our website, https://dacc.nmsu.edu/ctp, or call the office (575) 527-7776 for updates and additional information about truck driving training.

Course Descriptions

NOTE: Not all courses listed are offered at Doña Ana Community College.

A

- A S-ARTS AND SCIENCES (p. 326)
- ACCT-ACCOUNTING (p. 326)
- · ACES-AGRI, CONSUMER & ENV SCIE (p. 326)
- AEEC-AGRICULTURAL ECON/ECON (p. 326)
- AERO-AEROSPACE STUDIES (p. 327)
- AERT-AEROSPACE TECHNOLOGY (p. 327)
- AGRO-AGRONOMY (p. 328)
- AHS-ALLIED HEALTH SCIENCE (p. 328)
- · ANSC-ANIMAL SCIENCE (p. 329)
- ANTH-ANTHROPOLOGY (p. 330)
- ARCH-ARCHITECTURE (p. 331)
- ART-ART (p. 333)
- ARTH-ART HISTORY (p. 333)
- ARTS-ART STUDIO (p. 333)
- ASTR-ASTRONOMY (p. 335)
- · AUTO-AUTOMOTIVE TECHNOLOGY (p. 335)
- AVIM-AVIATION MAINTENANCE (p. 337)
- AXED-AGRICULTURAL EXTN EDUC (p. 338)

B

- B A-BUSINESS ADMINISTRATION (p. 338)
- BCHE-BIOCHEMISTRY (p. 338)
- BCIS-BUSINESS COMPUTER SYSTEMS (p. 339)
- BCT-BUILDING CONSTRUCTION TECH (p. 339)
- BFIN-BUSINESS FINANCE (p. 340)
- BIOL-BIOLOGY (p. 340)
- BLAW-BUSINESS LAW (p. 342)
- BLED-BILINGUAL EDUCATION (p. 342)
- BMGT-BUSINESS MANAGEMENT (p. 342)
- · BOT-BUSINESS OFFICE TECHNOLOGY (p. 344)
- BUSA-BUSINESS ADMINISTRATION (p. 344)

C

- C E-CIVIL ENGINEERING (p. 344)
- C S-COMPUTER SCIENCE (p. 345)
- CCDE-DEVELOPMENTAL ENGLISH (p. 346)
- CCDM-DEVELOPMENTAL MATHEMATICS (p. 346)
- CCDR-DEVELOPMENTAL READING (p. 346)
- CCDS-DEVELOPMENTAL SKILLS (p. 347)
- · CEPY-COUNSELING & EDUCATIONAL PSYCHOLOGY (p. 347)
- · CHEF-CULINARY ARTS (p. 348)
- CHEM-CHEMISTRY (p. 349)
- CHIN-CHINESE (p. 351)
- CHME-CHEMICAL & MATERIALS ENGR (p. 351)
- CHSS COMM HEALTH/SOC SRVCS (p. 351)
- CJUS-CRIMINAL JUSTICE (p. 352)
- COMM-COMMUNICATION (p. 352)
- CSEC-CYBERSECURITY (p. 352)
- CTEC-CYBER TECHNOLOGY (p. 353)
- CTFM-CLTHNG/TXTLS/FSHN MRCHDSG (p. 355)

D

- DANC-DANCE (p. 355)
- · DAS-DENTAL ASSISTING (p. 357)
- DHYG-DENTAL HYGIENE/HYGIENIST (p. 358)
- DMS-DIAGNOSTIC MED SONOGRAPHY (p. 360)
- DRFT-DRAFTING (p. 362)

E

- E E-ELECTRICAL ENGINEERING (p. 365)
- E T-ENGINEERING TECHNOLOGY (p. 365)
- ECED-EARLY CHILDHOOD EDUCATION (p. 368)
- ECON-ECONOMICS (p. 369)
- EDLT-EDUCATIONAL TECHNOLOGY (p. 369)
- EDUC-EDUCATION (p. 370)
- ELAD-EDUCATIONAL LEADERSHIP ADMINISTRATION (p. 370)
- ELT ELECTRONICS TECHNOLOGY (p. 370)
- ELWK-ELECTRICAL LINEWORKER (p. 372)
- ENGL-ENGLISH (p. 372)
- ENGR-ENGINEERING (p. 374)
- ENTR-ENTREPRENEURSHIP (p. 374)
- ENVS-ENVIRONMENTAL SCIENCE (p. 375)
- EPWS-ETMLGY/PLNT PTHLGY/WD SCI (p. 375)

F

- FCSC-FAMILY AND CONSUMER SCIENCES (p. 375)
- FCST-FAMILY AND CHILD STUDIES (p. 375)
- FDMA-FILM & DIGITAL MEDIA ARTS (p. 375)
- FIRE-FIRE INVESTIGATION (p. 380)
- FREN-FRENCH (p. 382)
- FSTE-FOOD SCIENCE & TECHNOLOGY (p. 382)
- FWCE-FISH, WILDLF, CONSERV ECOL (p. 383)
- FYEX-FIRST YEAR EXPERIENCE (p. 383)

G

- GENE-GENETICS (p. 384)
- GEOG-GEOGRAPHY (p. 384)
- GEOL-GEOLOGY (p. 384)
- GNDR-WOMEN'S STUDIES (p. 385)
- **GRMN-GERMAN** (p. 385)

Н

- HIST-HISTORY (p. 385)
- · HIT-HEALTH INFO TECHNOLOGY (p. 386)
- <u>HLED-HEALTH EDUCATION</u> (p. 387)
- HMSV-HUMAN SERVICES (p. 387)
- HNRS-HONORS (p. 387)
- HORT-HORTICULTURE (p. 389)
- · HOST-HOSPITALITY AND TOURISM (p. 390)
- HRTM-HOTEL/RESTRNT/TOURISM MGT (p. 391)
- HVAC-HEATING/AC/REFRIGERATION (p. 391)

ı

- I E-INDUSTRIAL ENGINEERING (p. 392)
- INMT INDUSTRIAL MAINTENANCE (p. 393)
- INTEGRATED NATURAL SCIENCES (p. 394)

J

- JAPN-JAPANESE (p. 394)
- JOUR-JOURNALISM (p. 394)

L

- · L SC-LIBRARY SCIENCE (p. 395)
- · LANG-LANGUAGE (p. 396)
- LAWE-LAW ENFORCEMENT (p. 396)
- LIBR-LIBRARY SCIENCE (p. 397)
- LING-LINGUISTICS (p. 397)

M

- M E-MECHANICAL ENGINEERING (p. 397)
- M SC-MILITARY SCIENCE (p. 398)
- MAT-AUTOMATION & MANUFACTURING (p. 399)
- MATH-MATHEMATICS (p. 400)
- MGMT-MANAGEMENT (p. 401)
- MKTG-MARKETING (p. 401)
- MUSC-MUSIC (p. 402)

N

- NA NURSING ASSISTANT (p. 404)
- NAV-NAVAJO (p. 405)
- NGEC-NATURAL GAS ENGINE COMP (p. 405)
- NURS-NURSING (p. 406)
- NUTR-NUTRITION (p. 409)

0

- OATS-OFFICE ADMINISTRATION TECHNOLOGY SYSTEMS (p. 409)
- OEBM-BIOMEDICAL TECHNOLOGY (p. 412)
- OECS-COMPUTER TECHNOLOGY (p. 412)
- OEEM- PARAMEDIC (p. 415)
- OEET- ELECTRICAL TRADES (p. 417)
- OEGR-DIGITAL GRAPHIC TECH (p. 418)
- OEGS-GEOGRAPHIC INFO SYS (p. 418)
- OETS-TECHNICAL STUDIES (p. 418)

P

- PHED-PHYSICAL EDUCATION (p. 419)
- PHIL-PHILOSOPHY (p. 419)
- PHLS-PUBLIC HEALTH SCIENCES (p. 420)
- PHYS-PHYSICS (p. 420)
- PL-S-PARALEGAL SERVICES (p. 422)
- POLS-POLITICAL SCIENCE (p. 423)
- PORT-PORTUGUESE (p. 423)
- PSYC-PSYCHOLOGY (p. 423)

R

- RADT-RADIOLOGIC TECHNOLOGY (p. 423)
- RESP RESPIRATORY THERAPY (p. 425)
- RGSC-RANGE SCIENCE (p. 426)

S

- SIGN-SIGN LANGUAGE (p. 426)
- SMET-SCIENCE/MATH/ENG/TECH (p. 426)
- SOCI-SOCIOLOGY (p. 426)
- SOIL-SOIL (p. 427)
- SOWK-SOCIAL WORK (p. 427)
- SPAN-SPANISH (p. 427)
- SPED-SPECIAL EDUCATION (p. 428)
- SPHS-SPEECH & HEARING SCIENCE (p. 428)
- · SPMD-SPORTS MEDICINE (p. 428)
- SUR-SURVEYING (p. 429)
- SURG-SURGICAL TECHNOLOGY (p. 429)

T

- TCEN-ENVIRONMENTAL/ENERGY TECH (p. 431)
- THEA-THEATER (p. 432)

W

- WATR-WATER UTILITIES (p. 433)
- · WELD-WELDING TECHNOLOGY (p. 434)

New Mexico State University is currently undergoing a renumbering initiative to align with a State regulatory change. While this process is occurring courses will appear in two ways, a four-digit number or a three-digit number.

Course Numbering:

Four-digit Course

ASTR 1120G The Planets (4 credits (3+3P))

- Course Prefix- the four letter code that represents the subject of the course and where the course can be located in the Courses A-Z list below.
- Course number- (1120) indicates the course is a freshman course.
- · Course Title- will appear after the prefix and number
- · Suffix- will appear at the end of the number
 - Suffix (G)- indicates a New Mexico statewide General Education course.
 - · Suffix (V)- indicates a Viewing a Wider World course.
 - Suffix (H)- indicates a Honors courses outside of the Honors prefix.
 - · Suffix (L)- indicates a Laboratory course.
 - Suffix (M)- indicates a Multicultural course.
- Credits The unit of university credit is the semester hour. In the example the course can be taken and will be charged for 4 credits. The numbers that appear in the parenthesis indicate the number of credits for lecture hours (3) and the number of credits for practicum/laboratory hours (3).

Three-digit Course

AERT 105 Aerospace Engineering PLTW (4 credits (2+4P))

- Course Prefix- the four letter code that represents the subject of the course and where the course can be located in the Courses A-Z list below.
- Course number- (105) indicates the course is a freshman course.
- · Course Title- will appear after the prefix and number
- · Suffix- will appear at the end of the number
 - Suffix (G)- indicates a New Mexico statewide General Education course
 - · Suffix (V)- indicates a Viewing a Wider World course.
 - Suffix (H)- indicates a Honors courses outside of the Honors prefix.
 - · Suffix (L)- indicates a Laboratory course.
 - · Suffix (M)- indicates a Multicultural course.
 - Suffix (N) indicates when the course credits are not applicable
 to the baccalaureate and specified associate degrees and is only
 added to developmental coursework.
- Credits The unit of university credit is the semester hour. In the
 example the course can be taken and will be charged for 4 credits.
 The numbers that appear in the parenthesis indicate the number of
 credits for lecture hours (2) and the number of credits for practicum/
 laboratory hours (4).

Designation

- 100-299/1000-2999 Lower Division (Las Cruces and Community College Campuses)
- 300-499/3000-4999 Upper Division (Las Cruces Campus)
 - 450-499/4500-4999 Senior and graduate courses (Las Cruces Campus)
- 500-799/5000-7999 Graduate courses (Las Cruces Campus)

All undergraduate students must demonstrate Basic Academic Skills in both English and mathematics before enrolling in any upper-division course (numbered 300/3000 or higher). These requirements ensure that each student in the upper-division courses has the ability to succeed without compromising the learning experience of other students.

Course Descriptions:

The course description will follow the prefix, number and credit hours. The description will explain what the course entails and will display any restrictions that the course may have that will be enforced during the registration process.

ASTR 1115G. Introduction Astro (lec+lab) 4 Credits (3+2P)

This course surveys observations, theories, and methods of modern astronomy. The course is predominantly for non-science majors, aiming to provide a conceptual understanding of the universe and the basic physics that governs it. Due to the broad coverage of this course, the specific topics and concepts treated may vary. Commonly presented subjects include the general movements of the sky and history of astronomy, followed by an introduction to basic physics concepts like Newton's and Kepler's laws of motion. The course may also provide modern details and facts about celestial bodies in our solar system, as well as differentiation between them - Terrestrial and Jovian planets, exoplanets, the practical meaning of "dwarf planets", asteroids, comets, and Kuiper Belt and Trans-Neptunian Objects. Beyond this we may study stars and galaxies, star clusters, nebulae, black holes, and clusters of galaxies. Finally, we may study cosmology-the structure and history of the universe. The lab component of this course includes hands-on exercises that work to reinforce concepts covered in the lecture, and may include additional components that introduce students to the night sky.

A S-ARTS AND SCIENCES (A S)

A S 100. Insights: University Experience for Future Careers 1 Credit (1)

Research and investigation of college majors and career opportunities.

A S 101. Success Seminar

1 Credit (1)

Academic and personal strategies and campus resources to enhance scholastic achievement. May be repeated up to 1 credits.

A S 103. Quantitative Foundations

3 Credits (3)

Course is designed to prepare students for College level mathematics. Initial assessments generate individualized paths to mastery of fundamental skills. Course also covers strategies and campus resources to enhance scholastic achievement. Traditional Grading with RR. May be repeated up to 6 credits. Traditional Grading with RR. Restricted to Las Cruces campus only.

A S 200. Interdisciplinary Topics

1-4 Credits

An interdisciplinary approach to subject matter cutting across departmental fields. Specific subjects to be announced in the Schedule of Classes.

ACCT-ACCOUNTING (ACCT)

ACCT 101. Supplemental Instruction to ACCT 221 1 Credit (1)

Collaborative workshop for students in ACCT 221 – Financial Accounting. Course does not count toward departmental degree requirements. May be repeated up to 2 credits. Restricted to Las Cruces campus only.

Corequisite(s): ACCT 221.

ACCT 200. A Survey of Accounting

3 Credits (3)

Emphasis on financial statement interpretation and development of accounting information for management. For engineering, computer science, and other non business majors. Community Colleges only. **Prerequisite**: one C S course or consent of instructor.

ACCT 2110. Principles of Accounting I

3 Credits (3)

An introduction to financial accounting concepts emphasizing the analysis of business transactions in accordance with generally accepted accounting principles (GAAP), the effect of these transactions on the financial statements, financial analysis, and the interrelationships of the financial statements.

ACCT 2120. Principles of Accounting II 3 Credits (3)

An introduction to the use of accounting information in the management decision making processes of planning, implementing, and controlling business activities. In addition, the course will discuss the accumulation and classification of costs as well as demonstrate the difference between costing systems.

Prerequisite(s): ACCT 2110.

ACES-AGRI, CONSUMER & ENV SCIE (ACES)

ACES 1120. Freshman Orientation

1 Credit (1)

Orientation to University life, including the understanding and utilization of resources that promote University success. Designed to promote success in achieving a career objective and perseverance for degree completion. Promotes a recognition of changes required in moving from high school to the University. Eight weeks in length, required for all freshmen in the College of Agricultural, Consumer and Environmental Science.

ACES 1210. Financial Fitness for College Students 1 Credit (1)

An introduction to personal financial practices in post high school and/ or college lives. Emphasis is placed on budgeting, savings, investment, college debt, student loans, credit cards, scams and consumer protection.

ACES 1220. Academic Excellence

1-3 Credits (1-3)

Academic curriculum of excellence that includes the development of collaborative learning and student success environment, learning diverse learning styles and multiple intelligences, and developing multicontextual academic communication styles. Restricted to: Open to all ACES majors. Restricted to Las Cruces campus only.

AEEC-AGRICULTURAL ECON/ECON

AEEC 1110. Introduction to Agricultural Economics and Business 3 Credits (3)

Orientation to agricultural economics and business through the discovery process for the consumer in the food, fiber and natural resource sectors of the global economy. The course will discuss the application of microand macro-economic principles as they relate to agricultural economics and business. May be repeated up to 3 credits.

AEEC 1120. Careers in Food and Agribusiness 1 Credit (1)

Orientation to agribusiness management. Students will learn about agricultural production and marketing in New Mexico, the United States, and the world. Students will be introduced to faculty and staff within the department, learn about career opportunities available to AEAB graduates, and develop a greater appreciation of agricultural management issues. May be repeated up to 1 credits. Restricted to Las Cruces campus only.

Prerequisite(s): Freshman status only or obtain consent of instructor.

AEEC 2110. Principles of Food and Agribusiness Management 3 Credits (3)

Description and application of management and financial principles, market planning, and organization theory in small business situations. May be repeated up to 3 credits.

AEEC 2120. Introduction to Food and Agribusiness Accounting 3 Credits (3)

Purpose and methods of keeping and analyzing farm and ranch records. Net worth and income statements, efficiency measures, analysis of the business, and tax computations. May be repeated up to 3 credits.

AEEC 2130G. Survey of Food and Agricultural Issues 3 Credits (3)

Survey of food and agricultural issues, including: geography of food production and consumption; human-agricultural-natural resource relations; agriculture in the United States and abroad; modern agribusiness; food safety; food, agriculture, and natural resources policy; ethical questions; role and impact of technology. Crosslisted with: FSTE 2130G.

AEEC 2140. Technology and Communication for Business Management 3 Credits (2+2P)

Understanding and improving skills for data analysis, information management and communication is the focus of this course. Drawing examples from a variety of management, business, technological and research situations, students discover the versatility and variety of uses of computer applications such as spreadsheet, database, presentation and document software. Emphasizing a 'hands-on' approach students learn the foundations of these tools and their use.

AEEC 2996. Special Topics

1-4 Credits

Specific subjects and credits to be announced in the Schedule of Classes. Maximum of 4 credits per semester. No more than 9 credits toward a degree. Consent of instructor required.

AERO-AEROSPACE STUDIES (AERO)

AERO 121. Heritage and Values

2 Credits (1.25+2P)

'Heritage and Values of the United States Air Force,' is a survey course designed to introduce students to the United States Air Force and provides an overview of the basic characteristics, missions, and organization of the Air Force. Includes Leadership Lab practicum. May be repeated up to 2 credits. Restricted to Las Cruces campus only.

AERO 122. Heritage and Values II

2 Credits (1.25+2P)

'Heritage and Values of the United States Air Force,' is a survey course designed to introduce students to the United States Air Force and provides an overview of the basic characteristics, and organization of the Air Force. Includes Leadership Lab practicum. May be repeated up to 2 credits. Restricted to Las Cruces campus only.

AERO 221. Team and Leadership Fundamentals 2 Credits (1.25+2P)

Teams and Leadership Fundamentals, focuses on laying the foundation for teams and leadership. The topics include skills that allow cadets to improve their leadership on a personal level and within a team. The courses will prepare cadets for their field training experience where they will be able to put the concepts learned into practice. The purpose is to instill a leadership mindset and to motivate sophomore students to transition from AFROTC cadet to AFROTC officer candidate. Includes Leadership Lab practicum. May be repeated up to 2 credits. Restricted to Las Cruces campus only.

AERO 222. Team and Leadership Fundamentals II 2 Credits (1.25+2P)

Team and Leadership Fundamentals, focuses on laying the foundation for teams and leadership. The topics include skills that will allow cadets to improve their leadership on a personal level and within a team. The courses will prepare cadets for their field training experience where they will be able to put the concepts learned into practice. The purpose is to instill a leadership mindset and to motivate sophomore students to transition from AFROTC cadet to AFROTC officer candidate. Includes Leadership Lab practicum. May be repeated up to 2 credits. Restricted to Las Cruces campus only.

AERO 223. Air Force Leadership Development 1 Credit (2P)

This course prepares cadets to excel in field training. Cadets are prepared in all facets of field training, including: leadership competency evaluations, the Cadet's Guide to Field Training, individual drill evaluations, attention to detail, dining hall procedures, maintenance of living areas, and the group problem solving process. Restricted to: Main campus only.

AERT-AEROSPACE TECHNOLOGY (AERT)

AERT 105. Aerospace Engineering PLTW 4 Credits (2+4P)

Introduce the student to Aerospace Engineering (AE) concepts and history. Studied topics include History of Flight, Aerodynamics, Rocket Science, Orbital Physics, Systems Engineering and Life Support/Environmental Systems. Restricted to: Community Colleges only.

AERT 111. Basic Electricity and Electronics 3 Credits (2+2P)

Fundamentals of electricity and electronics, basic circuit devices, meters, transistors, integrated fiber optics, and industrial application topics. Minimum math proficiency of CCDM 103 or CCDM 104 required or math placement into CCDM 114 or higher. Restricted to: Community Colleges only. Crosslisted with: ELT 105

AERT 121. Introduction to the Aerospace Workplace 4 Credits (2+4P)

The course covers space history, regulations, controls, aerospace industry terminology and acronyms as well as hands-on activities related to tools, procedures, and standard practices. Restricted to: Community Colleges only.

AERT 122. Aerospace Safety and Quality 3 Credits (2+2P)

Covers identification of hazards, personal protective equipment, safe practices, and protection of personnel, property, and equipment in the aerospace environment. Basic principles of quality assurance engineering and quality control relating to work processes will be discussed. Restricted to: Community Colleges only.

AERT 211. Electromechanical Devices 4 Credits (2+4P)

Theory and application of electromechanical devices and digital control circuits. Includes AD and DA converters, pneumatics, hydraulics, programmable logic controllers, DC, AC and stepper motors, and servomechanisms. Crosslisted with: MAT 240.

Prerequisite(s): ELT 160.

AERT 212. Materials and Processes (Basic Metallurgy) 3 Credits (2+2P)

Basic Metallurgy: Aluminum and its alloys (Alclad), hardening, tempering, annealing, anodizing, magnetism, titanium, copper, stainless steel, surgical steel, safety wire, iron rust. Metallurgical Processes: Welding and soldering. Inspection Fundamentals: Eddy currents, magnetic particles (ferrous and non-ferrous metals), ultrasonic, x-ray, visual, corrosion and corrosion control, and vacuum bagging. Restricted to: Community Colleges only.

AERT 213. Aerospace Fluid Systems 3 Credits (2+2P)

This course includes a familiarization of fluid system components, characteristics, and applications. Cryogenic and hypergolic materials and high pressure systems are also covered. Restricted to: Community Colleges only.

AERT 214. Aerospace Systems

3 Credits (2+2P)

This course provides an introduction to expendable and reusable spacecraft systems including hydraulic, pneumatic, electrical, propulsion, mechanical, HVAC, and ECLSS (Environmental Control and Life Support System). How systems interact with computer and data acquisition systems is also covered. Restricted to: Community Colleges only.

AERT 221. Inspection Requirements and Planning Metrology 3 Credits (2+2P)

Course teaches the benefits of inspection, quality control, material conditions. Also covers measurements, including temperature, ultrasonic, vibration and more. Restricted to: Community Colleges only.

AERT 222. Electromechanical Systems 3 Credits (2+2P)

Principles and applications of preventive and corrective maintenance procedures on industrial production machines using systems technical and maintenance manuals to develop troubleshooting procedures using systems block and schematic diagrams. Crosslisted with: MAT 245. Prerequisite(s)/Corequisite(s): AERT 221 or MAT 240. Prerequisite(s): ELT 160.

AERT 224. Aerospace Tests and Measurements 3 Credits (2+2P)

This course covers electrical and mechanical testing procedures (primarily non-destructive testing), equipment, measurements, and instrumentation involved in aerospace systems. Verification of tool and equipment calibration is also covered.

Prerequisite(s)/Corequisite(s): AERT 221. Restricted to: Community Colleges only.

AERT 225. Cooperative Experience

1-3 Credits (1-3)

Supervised cooperative work program. Student is employed in an approved occupation and supervised and rated by the employer and instructor. Consent of instructor required. Graded: S/U. Restricted to: Community Colleges only.

AERT 255. Special Topics

1-4 Credits (1-4)

Specific topics to be announced in the Schedule of Classes. Restricted to: Community Colleges only.

AERT 290. Independent Study

1-3 Credits (1-3)

Individual studies in areas directly related to aerospace. Consent of instructor required. Restricted to: Community Colleges only.

AGRO-AGRONOMY (AGRO)

AGRO 1110G. Introduction to Plant Science (Lecture & Lab) 4 Credits (3+2P)

This is an introductory course for understanding plant science. Basic biological, chemical, and physical principles of various plants are covered. The focus of this course is on plants/crops used in agriculture production of food and fiber as well as pasture and range plants. Plant taxonomy and soil properties will also be discussed. Same as HORT 1115G.

AGRO 2160. Plant Propagation

3 Credits (2+2P)

Practical methods of propagating horticultural plants by seed, cuttings, layering, grafting, division and tissue culture. Examination of relevant physiological processes involved with successful plant propagation techniques. Crosslisted with HORT 2160.

AGRO 2996. Special Topics

1-4 Credits (1-4)

Specific subjects and credits to be announced in the Schedule of Classes. Maximum of 4 credits per semester. No more than 9 credits toward a degree. May be repeated up to 9 credits. Consent of Instructor required.

AHS-ALLIED HEALTH SCIENCE (AHS)

AHS 102. Careers in the Health Fields

1-3 Credits (1-3)

This course will provide students with a broad understanding of health careers as well as emerging issues in health. This will also include the study of the functional roles of practice, education, administration, and research in health fields. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

AHS 115. Dietary Guidelines & Meal Planning 4 Credits (4)

A combination of the science of nutrition and the current Dietary Guidelines for Americans with practical application to meal planning and preparation. Strategies and techniques used to plan and prepare healthful and appetizing meals are explored. Evidenced-based dietary guidelines are provided to meet the needs of individuals and groups with chronic diseases. Menu development, modification and analysis are reviewed. Restricted to Community Colleges campuses only.

AHS 116. Math for Health Occupations

3 Credits (3)

Principles of math and pharmacology necessary for administration of medications. Restricted to: Community Colleges only.

Prerequisite(s): CCDM 114N or equivalent.

AHS 120. Medical Terminology

3 Credits (3)

The study and understanding of medical terminology as it relates to diseases, their causes and effects, and the terminology used in various medical specialties. Emphasis will be placed on learning the basic construction of medical words, appropriate spelling, use of medical terms, and use of medical abbreviations. Same as HIT 150. May be repeated up to 3 credits. Crosslisted with: NURS 150, BOT 150 and HIT 150. Restricted to Community Colleges campuses only.

AHS 140. Essentials of Anatomy and Physiology 4 Credits (3+3P)

Essentials of anatomy and physiology for those considering a career in health as well as those interested in understanding their own body and the basics of health.

AHS 153. Introduction to Anatomy and Physiology I 4 Credits (3+3P)

Survey of human anatomy and physiology.

Prerequisite: high school biology or high school chemistry, or CHEM 1120G, or consent of instructor.

AHS 155. Special Topics

1-6 Credits

Topics to be announced in the Schedule of Classes. May be repeated for a maximum of 6 credits.

AHS 190. Clinical Skills & Concepts for Medical Assisting I 6 Credits (3+6P)

A core course designed to provide an introduction to the theory, concepts, and skills needed for entry-level medical assisting positions. Content includes basic theory and concepts designed to support safe and effective practice as a medical assistant in ambulatory care settings. Includes a skills laboratory for hands-on practice and 96 hours of supervised clinical in the work environment. Restricted to Community Colleges campuses

AHS 202. Legal and Ethical Issues in Health Care 3 Credits (3)

Consideration of legal and ethical issues in modern health care delivery.

AHS 250. Spanish for Health Professionals 3 Credits (3)

Spanish for Health Professionals is a 3 credit course geared toward individuals working or majoring in health related areas. The course focus is on conversation and vocabulary needed for the workplace and task based practical skills. Restricted to: Community Colleges only.

AHS 280. Medical Office Administration & Management 4 Credits (2+4P)

A core course designed to provide the theory, concepts, and skills needed in preparation for entry-level medical assisting positions. Content includes theory and concepts related to medical office administration. The course includes skills, hands-on practice, and 40 hours of supervised clinical in the work environment in ambulatory care settings. Restricted to Community Colleges campuses only.

AHS 290. Clincial Skills & Concepts for Medical Assisting II 6 Credits (3+6P)

A core course designed to provide the theory, concepts, and skills needed in preparation for entry-level medical assisting positions. Content includes theory and concepts related to specialty areas of healthcare practice, as well as consideration for conditions affecting persons throughout the life span. The course includes a skills laboratory for hands-on practice and 96 hours of supervised clinical in the work environment with specialized populations and procedures in both ambulatory and acute care settings. Restricted to Community Colleges campuses

ANSC-ANIMAL SCIENCE (ANSC)

ANSC 1110. Animal Science Careers

1 Credit (1)

Introduction to scientific disciplines and career options in animalagriculture career skill development, including resume preparation, networking, importance of internships, and leadership experiences in animal agriculture.

ANSC 1120. Introduction to Animal Science 3 Credits (3)

This course is designed to provide an introduction to nutrients and their function in livestock animals. Basic feed identification, evaluation, and diet formulation will be discussed. The anatomy of the digestive tract of animals and their ability to utilize feedstuffs is presented. Classification, digestion, absorption, transport and metabolism of major nutrients required by animals are studied

ANSC 1120H. Introduction to Animal Science Honors 3 Credits (3)

This course is designed to provide an introduction to nutrients and their function in livestock animals. Basic feed identification, evaluation, and diet formulation will be discussed. The anatomy of the digestive tract of animals and their ability to utilize feedstuffs is presented. Classification, digestion, absorption, transport and metabolism of major nutrients required by animals are studied. Additional course work will be required. Restricted to Las Cruces campus only.

Prerequisite(s): Eligibility for membership in honors college.

ANSC 1120L. Introduction to Animal Science Lab 1 Credit (2P)

Students will observe and participate in activities related to farm animal management and will include areas of livestock selection, nutrition, reproductive physiology, animal ID and animal health. This lab is required for animal science majors.

Prerequisite(s)/Corequisite(s): ANSC 1120.

ANSC 1130. Westerrn Equitation I 2 Credits (4P)

Basic principles of Western riding, including care and management of the riding horse, equitation equipment, and development of riding skills.

ANSC 1140. Introduction to Dairy Science 3 Credits (3)

Introduction to the basic aspects of dairy science and how to apply key concepts to the practical feeding and management of dairy cattle and production of dairy products. Students should also obtain an appreciation for the size and diversity of the dairy industry.

Prerequisite(s)/Corequisite(s): ANSC 1120. Restricted to Las Cruces campus only.

ANSC 1160. Introductory Horse Science

3 Credits (2+2P)

The light horse industry; breeds; introduction to feeding, breeding, marketing and management; handling and selecting horses for breeding and performance.

ANSC 1170. Introduction to Animal Metabolism 3 Credits (3)

Principles underlying the mechanisms of animal metabolism as they relate to production, maintenance, and health of animals.

Prerequisite: CHEM 1215G.

ANSC 1180. Companion Animal in Society

3 Credits (3)

Examination of the historical, current, and potential future roles of companion animals in human society. Topics include animal domestication, breeds, exotic companion animals, the companion animal industry, and competitions and sports involving companion animals. Emphasis is on canine and feline species. May be repeated up to 3 credits. Restricted to Las Cruces campus only.

ANSC 2120. Equine Management

3 Credits (3)

Introduction and application of the business skills necessary to effectively manage the equine operation. Students will learn how to use strategic thinking and sound business management practices to succeed in the demanding equine industry.

Prerequisite: ANSC 1160.

ANSC 2130. Western Equitation II

2 Credits (4P)

Intermediate principles of Western riding, including reading horse behavior, limbering-up exercises, and developing riding skills. Introduction to rollbacks, turnarounds and stops.

Prerequisite: consent of instructor.

ANSC 2140. Introduction to Companion Animal Science 3 Credits (3)

Introduction to the care of common companion animal species. Species specific housing and nutrition are covered in the context of maximizing animal health and well-being and reducing disease. May be repeated up to 3 credits.

ANSC 2150. Management of Equine Operations

3 Credits (3)

Introduction and application of business skills necessary to effectively manage the equine operation. Students will learn how to use strategic thinking and sound business management practices to succeed in the demanding equine industry.

Prerequisite(s): ANSC 1160.

ANSC 2160. Team Competition in Animal Science 1-2 Credits

Training in team competition in the animal sciences. May be repeated up to 6 credits. Consent of Instructor required.

ANSC 2310. Introduction to Meat Science 3 Credits (2+3P)

Fundamental aspects of the red meat industry. Lecture topics and laboratory exercises include the nutrient value of meat, meat preservation, meat safety, muscle structure and contraction, slaughter and processing of beef, lamb and pork, sausage manufacture, meat curing, meat cookery, and muscle and bone anatomy.

ANSC 2330. Animal Production

3 Credits (2+2P)

Production and utilization of beef cattle, sheep, and swine; emphasis on feeding, breeding, management problems and marketing; selection of animals for breeding and market

ANSC 2340. Genetics in Animal Science

3 Credits (3)

Introduction to genetics and inheritance relative to livestock production. Introduction to procedures for collection and use of performance information in livestock improvement programs.

Prerequisites: BIOL 2610G.

ANSC 2996. Special Topics

1-4 Credits

Specific subjects and credits to be announced in the Schedule of Classes. Maximum of 4 credits per semester. No more than 9 credits toward a degree.

ANTH-ANTHROPOLOGY (ANTH)

ANTH 1115G. Introduction to Anthropology

3 Credits (3)

Anthropology is the systematic study of the humanity both past and present. The course introduces students to the four subfields of anthropology, which include archaeology, biological, linguistic and cultural anthropology. Students will learn about the concepts and methods that anthropologists use to study our species and gain a broader perspective on the human experience.

ANTH 1135G. Introduction to Biological Anthropology 3 Credits (3)

This course provides a basic introduction to the broad field of biological anthropology. The research interests of biological anthropologists include the history and development of modern evolutionary biology, molecular and population genetics, modern primates, the primate and human fossil record, and modern human biological diversity.

Corequisite(s): ANTH 1135L.

ANTH 1135L. Introduction to Biological Anthropology Lab 1 Credit (2P)

This laboratory course expand on the topics covered in lecture course and uses scientific methods and principles to examine evidence for the process of evolution, the nature of heredity, human evolutionary history and family tree relationships, primate ecology and behavior, and modern human diversity. Hands-on experience with fossil and skeletal material will be an important part of the learning process. Corequisite(s): ANTH 1135G

ANTH 1136. Introduction to Historic Preservation 3 Credits (3)

Introduction to historic preservation, its history, goals, methods, legal basis, and economic importance. Explores public role in decision-making. Community Colleges only.

ANTH 1137G. Human Ancestors

3 Credits (3)

Evolutionary history of the human species from its origin in the primate order, with primary emphasis on the evolution of humankind during the past three million years. Examination of the social lives of apes and consideration of similarities to and differences from them. Biological foundations of human behavior, emphasizing thought, movement, and interaction.

ANTH 1140G. Introduction to Cultural Anthropology 3 Credits (3)

This is an introductory course that provides an overview of cultural anthropology as a subfield within the broader discipline of anthropology and as a research approach within the social sciences more generally. The course presents core concepts and methods of cultural anthropology that are used to understand the ways in which human beings organize and experience their lives through distinctive cultural practices. More specifically, this course explores social and cultural differences and similarities around the world through a variety of topics such as: language and communication, economics, ways of making a living, marriage and family, kinship and descent, race, ethnicity, political organization, supernatural beliefs, sex and gender, and globalization. This course ultimately aims to present a broad range of perspectives and practices of various cultural groups from across the globe.

ANTH 1160G. World Archaeology 3 Credits (3)

This course is an exploration of human evolution and cultural development throughout the world. Students will be introduced to basic anthropological methods and theories and will learn how anthropological research has contributed to our understanding of major themes in human prehistory, including human evolution, the origins of culture, migration and colonization, animal and plant domestication, and the rise and fall of civilizations.

ANTH 2140G. Indigenous Peoples of North America 3 Credits (3)

This course is a general survey of the history and ethnology of indigenous groups in North America. The course is designed to give students a comprehensive view of major issues pertaining to the indigenous cultures of North America, such as family structure, social organization, subsistence and contemporary economies, environmental adaptation, Indian-White relations, religious practices, and contemporary issues.

ANTH 2150. Indigenous Peoples of the American Southwest 3 Credits (3)

This course is a study of indigenous cultural groups of the American Southwest. Students will explore historical and contemporary cultural and social patterns of American Indian, Hispanic and Anglo-American groups.

ANTH 2996. Special Topics

1-4 Credits

Specific subjects to be announced in the Schedule of Classes. May be repeated for a maximum of 12 credits.

ARCH-ARCHITECTURE

ARCH 1105. Orientation and Mentoring in Architecture-Construction-Engineering (ACE)

1-6 Credits (1-6)

This course is intended for high school dual credit students and college/university students wishing to explore careers in Architecture, Construction, and Engineering (ACE), which includes the specific fields of Architectural, Civil, Mechanical, Structural, Interior, Landscape, Sustainability, and Environmental. Students receive one-on-one mentoring, attend field trips, and engage in hands-on activities. May be repeated up to 6 credits. Restricted to Community Colleges campuses

ARCH 1110. Architectural Drawing 4 Credits (2+4P)

This course is designed as an introduction to architectural drawing and design for students without prior experience in the fine arts. Students are guided through a series of spatial and analytical exercises that focus attention on not only how architects draw, but also the reasoning and processes embedded within the technique. Students are provided exposure to a wide range of interconnected architectural concepts and to manual and digital drawing, as well as modeling techniques for architectural and interior design. Students will learn how to represent composition, form, and space by orthographic drawing, paraline and perspective views, and freehand sketching. Three-dimensional model building techniques will also be introduced.

ARCH 1112. Global Issues and Sustainability 3 Credits (3)

Introduction to global environmental issues (historic, present, and future), and the impact on tomorrow's design and construction professions. Issues will include, but shall not be limited to global warming, energy consumption, population, natural resource consumption, air and water quality, waste management, facilities operation management, politics, and facilities design & construction. The impact on the design and construction industry, including 'Green Building' and 'LEED Accreditation and Certification/Criteria' will also be addressed. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

ARCH 1114. Introduction to Architectural Design 3 Credits (2+2P)

This course provides students who possess a basic background in architecture and architectural drawing with an introduction to architectural design. Students are guided through a series of spatial and analytical exercises that focus attention on two dimensional, three dimensional, and four dimensional design. This course will build on direct linkages to ARCH 1120 and ARCH 1110 to further students' exposure to interconnected architectural concepts of process, organizational strategies, and analysis of material methodology while utilizing abstract and practiced graphical architectural conventions. Consent of Instructor required. Restricted to Community Colleges campuses only.

Prerequisite(s): ARCH 1120 and ARCH 1110.

ARCH 1120. Introduction to Architecture 3 Credits (2+2P)

This course provides students the tools and vocabulary to analyze, interpret and discuss the built environment from the social, historical, perceptual and technical determinants. Students are introduced to elements, principles, and theories of architecture through their social, historical, and technical determinants. The course seeks to lay a foundation in architectural studies, including introducing students to fundamental vocabulary and concepts.

ARCH 1121. Computers in Architecture 3 Credits (2+2P)

Explore various software and photography techniques widely used in the architectural field. In addition to using industry standard CAD program as primary 2-d drafting tool, focus is to produce digital architectural models and renderings, presentation boards, and animations. Digital images will be produced and enhanced through basic techniques in photography and integration of various software. Both individual and group work will be required.

ARCH 1122. Architectural Design Studio I 5 Credits (1+8P)

Enhancement of general graphic communication skills and introduction to fundamental design including exploration, development and defense of design concepts; structural order; 2D and 3D processes in manual and digital architectural graphic expression; model building; general communication and presentation techniques; and development of course portfolio. Course is Studio/critique-based with considerable amount of work/hours required. This course is designed to be taken during student's last year in the Pre-Architecture program at DACC. Consent of Instructor required. Restricted to Community Colleges only.

Prerequisite(s): Grade of B- or better in both ARCH 1120 and ARCH 1110.

ARCH 1220. Architecture World History I 3 Credits (2+2P)

A survey of the development of world architecture from the ancient era to the advent of the enlightenment in Europe. Major emphasis is on the visual, intellectual, cultural and technological aspects of the ancient and indigenous cultures of the classical and pre-modern world. Community Colleges only. Restricted to Alamogordo, Dona Ana and Grants campuses.

ARCH 1310. Introduction to Architecture, Engineering, & Construction 3 Credits (3)

Introduction to and exploration of careers in the fields of architecture, engineering, and construction. Specific fields to include: architecture, civil engineering, mechanical engineering, structural engineering, engineering technology, residential construction, commercial construction, geographical information systems (GIS), surveying, sustainable design, and green building Crosslisted with: DRFT 100.

ARCH 2111. Architectural Delineation I 3 Credits (2+2P)

Introduction to visual literacy, architectural graphic communication, & basic analytical skills. Architectural concepts primarily explored through the application of technical drawing, descriptive geometry, & material manipulation; primarily black & white media. Use of digital tools and media as applicable. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

ARCH 2113. Sustainable Design in Architecture 3 Credits (3)

This course provides students with hands-on opportunity to increase their awareness in, and respond to the issues of responsible environmentally friendly building design by engaging in an integrated design process combining 'Traditional Design Process' with 'Sustainable Environmental Design' strategies. Students will expand their awareness of global environmental impacts due to design and construction, and gain knowledge in the industry's leading design 'tool' LEED (Leadership in Energy and Environmental Design) green building design rating system. LEED strategies will be utilized in the design of individual projects apply LEED in practical, individual design development, and develop an integrated building model utilizing the concept of BIM (Building Information Modeling). Such project development will require learning a basic design process and specific sequence including conceptual design, schematic design, design development and BIM (utilizing a BIM software such as REVIT, or AutoCad Architecture). May be repeated up to 3 credits. Prerequisite(s): DRFT 109 or DRFT 165 or ARCH 2114.

ARCH 2114. Construction Documents 3 Credits (2+2P)

Basic use of CAD to produce residential, commercial, and industrial architectural working drawings, including floor plans, sections, foundation plans and details, exterior and interior elevations, framing plans, and site plans. Use and application of building and zoning codes, typical construction methods and materials, and accessibility requirements. Basic 3-D modeling, AIA layering standards, sheet layout, and construction document coordination. Restricted to: Community Colleges only.

Prerequisite(s)/Corequisite(s): DRFT 109.

ARCH 2115. Architecture Design Studio II 5 Credits (1+8P)

Advanced graphic communication, design, and 3D physical model representation. Focus on site analysis, programming and fundamental design issues of context, environment, program development and space planning, 2D and 3D design and presentation techniques. Course is 'Studio/critique-based' with considerable amount of outside work/hours required. This course is designed to be taken during student's last year in the Pre-Architecture program at DACC. Restricted to Alamogordo, Dona Ana and Grants campuses.

Prerequisite(s): Grade of C- or better in ARCH 1122.

ARCH 2116. Architectural Delineation

3 Credits (2+2P)

Continuation of ARCH 2111 with an emphasis in color media.

Prerequisites: ARCH 2111.

ARCH 2122. LEED Accreditation Exam Prep 3 Credits (3)

This course is intended for anyone in the construction or architectural design fields who is interested in learning more about green building and the LEED (Leadership in Energy and Environmental Design) strategies, and are also interested in learning about how to become LEED accredited. Overview of the LEED rating systems utilized in the design and operation of buildings, the various LEED building certifications, and accreditation requirements for professionals. Highlights include interpretation of the LEED Reference Guides, accepted strategies for meeting LEED certification, sample practice exams, integrated project delivery methods, and a practical approach to problem solving through the use of design problems. Restricted to Community Colleges only.

ARCH 2124. Professional Development and Leadership-AIAS 1-3 Credits

As members and/or officers of student professional organizations, architecture students gain experience through undertaking leadership roles, participating in team building, and becoming involved in service to the community. Students can also gain actual work experience involving skills related to their field of study. Graded S/U.

ARCH 2220. Architectural World History II 3 Credits (2+2P)

A survey of the development of world architecture from the enlightenment in Europe to the present. Community Colleges only. Restricted to Alamogordo, Dona Ana and Grants campuses. **Prerequisite(s):** ARCH 1220 or consent of instructor.

ARCH 2994. Portfolio Design in Architecture

3 Credits (3)

This course is intended for Pre-Architecture students in their last semester of the program. Students develop a comprehensive portfolio that compiles, organizes, and showcases their most accomplished coursework produced in Architecture courses at DACC, in preparation for application to a 4 yr. Architecture program. Skills and techniques in architectural photography, scanning, and design layout using graphic software. Restricted to Community Colleges only.

Corequisite(s): ARCT 2115.

ARCH 2995. Cooperative Experience

1-6 Credits

Supervised cooperative work program. Student employed in approved occupation; supervised and evaluated by employer and instructor. Student meets weekly with instructor. Graded S/U.

Prerequisite: consent of instructor.

ARCH 2996. Special Topics

1-6 Credits

Topics subtitled in the Schedule of Classes. May be repeated for a maximum of 12 credits.

Prerequisite: consent of instructor.

ART-ART (ART)

ART 125. Foundations in Art

3 Credits (2+4P)

The Foundations course will focus on a deceptively simple question. 'What is Contemporary Art, and how can we make it?' Through the exploration of basic visual design concepts, collaborative learning, and interdisciplinary studio production, this course will help us to discover what it means to be an artist in the 21st century. Restricted to Las Cruces campus only.

ARTH-ART HISTORY

ARTH 1115G. Orientation in Art

3 Credits (2+3P)

A multicultural examination of the principles and philosophies of the visual arts and the ideas expressed through them.

ARTH 2110G. History of Art I

3 Credits (3)

This survey course explores the art and architecture of ancient prehistoric cultures through the end of the fourteenth century. While focused primarily on the art of the Western civilizations, this course will also provide insights into the works of other major cultures in order to provide alternate views of art and history. Emphasis will be placed on the relationship of artworks to political, social, spiritual, intellectual, and cultural movements that affect and are affected by their creation and development.

ARTH 2120G. History of Art II

3 Credits (3)

This survey course will explore the architecture, sculpture, ceramics, paintings, drawings, and glass objects from the 14th century to the modern era. While focused primarily on the art of the Western civilizations, this course will also provide insights into the works of other major cultures in order to provide alternate views of art and history. Emphasis will be placed on the relationship of artworks to political, social, spiritual, intellectual, and cultural movements that affect and are affected by their creation and development. May be repeated up to 3 credits.

ARTS-ART STUDIO

ARTS 1145G. Visual Concepts

3 Credits (2+4P)

Visual Concepts is an introduction to the philosophies of art, visual thinking, and principles of visual organization. Designed to give students a broad view of aesthetic traditions, ideologies, and techniques basic to the creation and evaluation of art. Principles and concepts are taught in a common lecture and applied in parallel small studio sections. For non-art majors only.

ARTS 1212. Color Theory

3 Credits (2+4P)

Various color theories as they relate to compositional organization. Required for art education majors.

ARTS 1240. Design I

3 Credits (3)

This course introduces the fundamentals of two-dimensional design as it applies to fine art and commercial contexts. Emphasis will be on basic color theory, elements of dynamic composition, vocabulary of visual arts and design, and development of visual conceptual skills. Students will use a variety of materials and techniques. Restricted to Community Colleges campuses only.

ARTS 1250. Design II

3 Credits (3)

This course introduces the basic formal (aesthetic), spatial, and physical aspects of 3-D form as they can be applied to sculptural and functional design. Techniques that explore structure, mass, volume, scale, surface, form, and function are covered, along with various media, which may include paper, wood, clay, and/or metal. Restricted to Community Colleges campuses only.

ARTS 1310. Introduction to Ceramics

3 Credits (2+4P)

This course introduces the technical processes and conceptual concerns of working with ceramic material. Various methods of forming functional and expressive works out of clay are explored. Methods used include handbuilding and throwing, basic clay bodies, slip and glaze, and atmospheric firing.

ARTS 1320. Ceramics I

3 Credits (2+4P)

An introduction to the medium of clay incorporating hand building and wheel throwing to introduce the student to both the sculptural and utilitarian uses of clay. The student will also be introduced to a variety of glazing and firing techniques

ARTS 1410. Introduction to Photography 3 Credits (2+4P)

This course introduces the making of photographic images from a broad viewpoint to consider both as an art practice and as a cultural practice. The course covers technical information on camera use and functionality, composition and visual design, digital workflow and editing, professional functions of manipulating and enhancing images, and printing correctly and effectively. The historical aspects of photography are also covered. May be repeated up to 3 credits.

ARTS 1520. Digital Media I

3 Credits (2+4P)

This course provides an introduction to two of Adobe's major software applications, Illustrator and Photoshop, which are essential in creating artwork, designing promotional materials, websites and more. Part of the course deals with creating a variety of documents using the major tools of each program, and gaining an understanding of the contemporary graphic design industry and basic elements and principles of design. Community Colleges only.

ARTS 1610. Drawing I

3 Credits (2+4P)

This course introduces the basic principles, materials, and skills of observational drawing. Emphasis is placed on rendering a 3-D subject on a 2-D surface with visual accuracy. Other topics include historical and contemporary references as well as an investigation of linear perspective, line, value, shape, space & composition. May be repeated up to 3 credits.

ARTS 1630. Painting I

3 Credits (2+4P)

This course introduces the tradition of painting as a medium for artistic expression. Students will investigate materials, tools, techniques, history and concepts of painting. Emphasis is placed on developing descriptive and perceptual skills, color theory, and composition. May be repeated up to 3 credits.

Prerequisite(s): ARTS 1610.

ARTS 1710. Introduction to Printmaking

3 Credits (2+4P)

This course provides direct experience of exploring basic printmaking processes, including relief, intaglio, and monoprint processes, as well as the investigation of materials/media, tools, techniques, history, and concepts of printmaking. Emphasis is given to solving problems through thematic development while producing a portfolio of prints.

ARTS 1711. Computer-Based Illustration

3 Credits (2+4P)

Introduction to the principles of computerized drawing and design. Using the basic concepts, drawing tools, and vocabulary of Adobe Illustrator. **Prerequisite:** ARTS 1610, ARTS 1240, or consent of instructor.

ARTS 1712. Digital Graphics

3 Credits (2+4P)

Importing and exporting images and text into various desktop publishing formats. Exploring imaging, drawing, and page layout applications. Introduction to typography.

Prerequisite: ARTS 1520.

ARTS 1713. Web Page Design

3 Credits (2+4P)

Introduction to the creation of well-designed and organized Web sites. Emphasis on building creative but functional user-friendly sites. Introduction to HTML, Flash, Java Script, and Web-authoring software. Community Colleges only.

Prerequisite: ARTS 1520.

ARTS 1810. Jewelry and Small Metal Construction I 3 Credits (2+4P)

This course introduces the basic techniques, materials, and tools traditionally used in the creation of jewelry and/or small-scale sculptural objects.

ARTS 2010. Portfolio Development

3 Credits (2+4P)

This course presents the practicalities of building an art career with emphasis on developing a professional portfolio through visual aids, resumes, statements, and presentations. It covers professional practices of the studio artist including self-promotion, contracts, research tools for exhibition venues and other art related opportunities.

Prerequisites: ARTS 1712, ARTS 2611, and ARTS 1520, or consent of instructor.

ARTS 2355. Stained Glass

3 Credits (2+4P)

Instruction in the fundamental fabrication and design techniques for stained glass. Introduction to visual decision making skills, historical, and critical issues of the medium. Community Colleges only.

ARTS 2410. Black & White Photography 3 Credits (2+2P)

This course introduces the fundamental techniques of black and white photography, which includes camera functions and use, exposure techniques and film processing, traditional darkroom printing, and presentation of work. Same as ARTS 1410.

ARTS 2430. Photographic Portraiture

3 Credits (2+2P)

This course covers the study of professional photography that involves people, including studio and environmental portraits. Topics include studio and exterior lighting techniques, and selecting lighting equipment and supplies. Restricted to: Community Colleges only.

Prerequisite(s): ARTS 1410 or FDMA 1545.

ARTS 2431. Introduction to Graphic Design

3 Credits (2+4P)

Introduction to the principles of visual communication and digital media, letterforms, typography and identity marks. Projects produced using conventional and digital tools.

ARTS 2440. Photo Finishing & Presentation 2 Credits (1+2P)

Use of visual language for personal expression. Freelance photography; care of original photos; preparation of portfolios, photographic markets, exhibitions and judging, galleries and copyrights. Students will prepare a photographic portfolio. Restricted to: Community Colleges only.

Prerequisite(s): FDMA 1545.

ARTS 2610. Drawing II

3 Credits (2+4P)

This course introduces color and colored media as an element of composition while emphasizing descriptive and perceptual drawing skills and conceptual approaches to contemporary drawing. Restricted to ART and ANVE/DFM majors.

Prerequisite(s): ARTS 1610.

ARTS 2611. Advanced Computer-Base Illustration 3 Credits (2+4P)

Design custom graphics and create special effects with filtering, special effects on type, graphing, technical illustrations, and three-dimensional drawing using Adobe Illustrator.

Prerequisites: ARTS 1212, ARTS 1711, and ARTS 1520, or consent of instructor.

ARTS 2616. Aspects of Drawing

2-3 Credits

Continued work in drawing with emphasis on personal creative endeavor. Community Colleges only.

Prerequisites: ARTS 1610 and ARTS 2610.

ARTS 2630. Painting II

3 Credits (2+4P)

This course focuses on the expressive and conceptual aspects of painting, building on the observational, compositional, technical, and critical skills gained previously. Students will investigate a variety of approaches to subject matter, materials, and creative processes through in-class projects, related out-of-class assignments, library research or museum/gallery attendance, written responses, and critiques. Prerequisite(s): ARTS 1610 and ARTS 1630

ARTS 2635. Painting III

2-3 Credits

Continuation of ARTS 2630.

Prerequisites: ARTS 1610, ART 1240 (for art majors), ART 1630, or consent of instructor.

ARTS 2671. Writing in Art

3 Credits (3)

This reading- and writing-intensive course will introduce students to various approaches of writing about historical art.

ARTS 2839. Introduction to Sculpture

3 Credits (2+4P)

Beginning sculpture students "explore space" while learning new processes and skills, including mold making, welding and woodworking.

ARTS 2993. Art Workshop

0.5 Credits (.5)

Required for all freshman and sophomore Art majors for four semesters, this workshop is designed to build professional student cohorts within the Department of Art; incorporate visiting artist and scholar lectures into the curriculum; and actively involve students in exhibitions and gallery and departmental events. May be repeated up to 4 credits. Crosslisted with: ARTS 308. Restricted to: BA Studio Art, BA Art History BFA Studio Art, BFA Museum Conservation majors. Restricted to Las Cruces campus only.

ARTS 2996. Special Topics in Studio

1-3 Credits

Specific subjects and credits to be announced in the Schedule of Classes. No more than 9 credits toward a degree.

Prerequisite: consent of instructor.

ASTR-ASTRONOMY (ASTR)

ASTR 1115G. Introduction Astro (lec+lab)

4 Credits (3+2P)

This course surveys observations, theories, and methods of modern astronomy. The course is predominantly for non-science majors, aiming to provide a conceptual understanding of the universe and the basic physics that governs it. Due to the broad coverage of this course, the specific topics and concepts treated may vary. Commonly presented subjects include the general movements of the sky and history of astronomy, followed by an introduction to basic physics concepts like Newton's and Kepler's laws of motion. The course may also provide modern details and facts about celestial bodies in our solar system, as well as differentiation between them - Terrestrial and Jovian planets, exoplanets, the practical meaning of "dwarf planets", asteroids, comets, and Kuiper Belt and Trans-Neptunian Objects. Beyond this we may study stars and galaxies, star clusters, nebulae, black holes, and clusters of galaxies. Finally, we may study cosmology-the structure and history of the universe. The lab component of this course includes hands-on exercises that work to reinforce concepts covered in the lecture, and may include additional components that introduce students to the night sky.

ASTR 1116. Introduction to Astronomy Lab, Special 1 Credit (1)

This lab-only listing exists only for students who may have transferred to NMSU having taken a lecture-only introductory astronomy class, to allow them to complete the lab requirement to fulfill the general education requirement. Consent of Instructor required. , at some other institution). Restricted to Las Cruces campus only.

Prerequisite(s): Must have passed Introduction to Astronomy lectureonly.

ASTR 1120G. The Planets

4 Credits (3+2P)

Comparative study of the planets, moons, comets, and asteroids which comprise the solar system. Emphasis on geological and physical processes which shape the surfaces and atmospheres of the planets. Laboratory exercises include analysis of images returned by spacecraft. Intended for non-science majors, but some basic math required.

AUTO-AUTOMOTIVE TECHNOLOGY (AUTO)

AUTO 102. Electrical Measuring Instruments

2 Credits (1+2P)

Selection, operation, and care of electrical measuring instruments.

AUTO 111. Automotive Mechanics Basics

4 Credits (4)

Basic maintenance procedures of the major components of the automobile using service repair manuals, hand and power tools, precision measurement equipment, fasteners and chemicals. Restricted to: Community Colleges only.

AUTO 112. Basic Gasoline Engines

5 Credits (2+6P)

Principles of gasoline engine operation. Identification, design, function of engine components; engine disassembly and reassembly; trouble shooting, and rebuilding heads.

AUTO 113. Automotive Electricity and Electronics PT I 4 Credits (2+4P)

Topics include mastery of DC electricity, use of digital multimeters, troubleshooting electrical problems in starting, charging and accessory systems. Restricted to Community Colleges only.

AUTO 114. Automotive Electricity and Electronics PT II 4 Credits (2+4P)

Advanced AC and DC automotive electronic circuits. Troubleshooting electronically controlled components including supplemental restraint systems and convenience accessories. May be repeated up to 4 credits. **Prerequisite(s)/Corequisite(s):** AUTO 113. Restricted to Community Colleges campuses only.

AUTO 115. Automotive Engine Repair 5 Credits (2+6P)

Principles of gasoline engine operation. Identification of engine parts, operation, and function. Disassembly and reassembly. Engine problem diagnoses (cooling system, lubrication system, engine noises). Restricted to Community Colleges only.

AUTO 117. Electronic Analysis and Tune-Up of Gasoline Engines 5 Credits (2+6P)

Theory and operation of ignition and emission control systems and fuel system. Use of troubleshooting equipment and diagnostic equipment. **Prerequisite:** AUTO 120 or consent of instructor.

AUTO 119. Manual Transmission/Clutch

5 Credits (2+6P)

Manual transmission, transfer cases, and clutch operating principles. Students will diagnose problems, remove and replace, disassemble, repair, and assemble units.

AUTO 120. Electrical Systems

4 Credits (2+4P)

Troubleshooting and repair of starters, alternators, and associated circuits. Reading electrical diagrams, diagnosis and repair of electrical accessories.

Prerequisite: consent of instructor.

AUTO 122. Automotive Brakes

4 Credits (2+4P)

Focus is on theory, diagnosis, and service of drum, disc, and anti-lock braking systems, brake component machining, hydraulic component reconditioning, friction and hardware replacement. Restricted to Community Colleges only.

AUTO 124. Automotive Heating and Air Conditioning 4 Credits (2+4P)

R12 and R134A air conditioning systems maintenance diagnosis and repair. R12 to R134A conversion procedures. Troubleshooting automatic temperature controls and leak detection. Restricted to Community Colleges only.

AUTO 125. Brakes

5 Credits (2+6P)

Theory of operation, diagnosis, repair, and maintenance of disc and drum brakes; safety and use of special tools.

AUTO 126. Suspension, Steering, and Alignment

5 Credits (2+6P)

Types of steering systems, suspension maintenance and repair, fourwheel alignment procedures.

AUTO 127. Basic Automatic Transmission

4 Credits (2+4P)

Theory and operation of the automatic transmission; maintenance, troubleshooting, diagnosis, and repair of components.

AUTO 129. Automotive Steering and Suspension 4 Credits (2+4P)

Diagnosis/service of suspension components including shocks, springs, ball joints, manual and power steering systems and four wheel alignment are some areas covered. Restricted to Community Colleges only.

AUTO 130. Introduction to Transportation Industry 3 Credits (3)

State and national traffic statutes that relate to the trucking industry. A Commercial Driver's License Learner's Permit will be obtained through successful completion of the course.

Prerequisites: Must be 18 years of age, have a current driver's license and consent of instructor.

AUTO 131. Class A CDL

3 Credits (1+4P)

Instruction in how to perform proper pre-trip inspection; hands-on training with a tractor-trailer unit on the backing range and street driving to develop skills necessary to pass Class A DCL exam. Restricted to Community Colleges campuses only.

Prerequisite(s): Class A CDL restricted license (permit) and either restriction of D.O.T.

AUTO 132. Automotive Air-Conditioning and Heating Systems 4 Credits (2+4P)

Theory and operation, reading schematic diagrams, troubleshooting, repair, and replacement operations performed.

AUTO 137. Fuel Systems and Emission Controls

4 Credits (2+4P)

Covers theory and operation of fuel system and emission control. Troubleshooting, vacuum diagrams, overhaul, repair and adjustment of carburetion and fuel injection.

Prerequisites: AUTO 117 or consent of instructor.

AUTO 139. Automotive Computer Controls

4 Credits (2+4P)

Same as OEPM 139.

AUTO 162. Advanced Non-Structural Repair I 4 Credits (2+4P)

This course will involve the students in all phases of minor non-structural collision damage repairs. It will encompass sheet metal repair, advanced panel replacement and alignment.

Prerequisite(s): AUTO 161.

AUTO 163. Advanced Non-Structural Repair II 4 Credits (2+4P)

This course is a continuation of AUTO 162 with emphasis in all phases of minor non-structural damage repair. The student will be instructed in sheet metal repair and panel alignment as well as the R&I of automotive glass and related components.

Prerequisite(s): AUTO 162.

AUTO 164. Automotive Industry Collision Repair I 4 Credits (2+4P)

This advanced course is a continuation of AUTO 161, 162, and 163. This course will incorporate all areas of major non-structural collision damage repair. Through practical application the student will learn how to effectively repair all heavy collision damage using current I-CAR repair standards and procedures.

Prerequisite(s): AUTO 163.

AUTO 165. Automotive Industry Collision Repair II 4 Credits (2+4P)

This advanced course is a continuation of AUTO 164 with emplasis on time efficiency. This course will involve the student in all areas of major collision damage repair. The student will be exposed to all applicable I-CAR industry procedures and standards involved in sheet metal and composite panel repair.

Prerequisite(s): AUTO 164.

AUTO 172. Introduction to Automotive Refinishing 4 Credits (2+4P)

This course is designed to incorporate all aspects of surface preparation, paint safety, refinishing materials, and refinishing fundamentals. Students will receive instructions for the application of acrylic enamel and base coat/clear coat refinishing systems.

AUTO 174. Intermediate Automotive Refinishing 4 Credits (2+4P)

This course encompasses all areas of surface preparation, damage repair and refinishing procedures that are necessary for achieving a proper spot repair. Students will also be exposed to safe work habits in the refinishing area and correct automotive detailing procedures.

Prerequisite(s): AUTO 172.

AUTO 176. Automotive Color Adjustment & Blending 4 Credits (2+4P)

This course will help develop the skills needed to match any type of paint. It will expose the student to color theory, color evaluation, color matching, and other color adjustment factors. The student will be instructed in multiple panel paint blending techniques as well.

Prerequisite(s): AUTO 174.

AUTO 178. Automotive Overall Refinishing 4 Credits (2+4P)

This course encompasses all areas of automotive refinishing. This advanced course is a continuation of AUTO 176 with emphasis in achieving industry refinishing times and standards consistent with that of I-CAR. The student will be exposed to surface preparation and refinishing techniques involved with overall coat/clear coat refinishing system. **Prerequisite(s):** AUTO 176.

AUTO 181. Frame and Structural Repair 4 Credits (2+4P)

This course will involve the student in all areas of frame and structural damage repairs. Through theory and practical application, the student will learn how to diagnose and repair various types of damage include: mash, twist, sag, and side sway. This course will expose the students to safe work habits while using measuring and straightening equipment.

Prerequisite(s): AUTO 165.

AUTO 182. Structural Panel Replacement 4 Credits (2+4P)

This course is a continuation of AUTO 181 with infancies in structural panel replacement. The student will be exposed to frame and unibody measuring equipment and their proper use in sectioning procedures. Through theory and practical application the student will learn how to ID structural components, properly separate spot welds, position and weld new body panels in place.

Prerequisite(s): AUTO 181.

AUTO 201. Engine Performance I

4 Credits (2+4P)

Theory, function, service and analysis of engine related subsystems including ignition, fuel, starting, and charging systems. Emphasis is placed on diagnosis and operation of electronic engine control management systems. Restricted to Community Colleges only.

AUTO 203. Engine Performance II 4 Credits (2+4P)

Study of engine management systems and emission control systems, their function and relationship to vehicle performance and air pollution. Emphasis is placed on the analysis and repair of non-compliant vehicles. Restricted to Community Colleges only.

AUTO 204. Engine Performance III 4 Credits (2+4P)

Study of advanced level diagnostic test procedures and the equipment used to analyze OBD-II emission and drivability concerns. Use of Digital Storage Oscilloscopes, current ramping, Scan Tool analysis of 4 and 5 gas analyzers is mastered. Hybrid vehicles and the latest engine control systems are introduced. Restricted to Community Colleges only.

AUTO 205. Manual Drive Train and Axles 4 Credits (2+4P)

Operation, diagnosis, maintenance, repair or replacement of manual transmissions, clutch assemblies, differentials, drivelines, axles, and manual transaxles. Restricted to Community Colleges only.

AUTO 206. Automatic Transmissions 5 Credits (2+6P)

Operation, diagnosis, maintenance, and repair of automatic transmissions including rear wheel drive, front wheel drive, and electronically controlled transmissions and transaxles. Restricted to Community Colleges only.

AUTO 208. Introduction to Alternative Fueled Vehicles 3 Credits (3)

Course will familiarize student with conditions that are resulting in the alternative fueled vehicle movement as well as the design and safety precautions unique to each alternative fuel. Propulsion systems covered include electric vehicles, bio-fueled vehicles, hybrid-electric vehicles and hydrogen powered vehicles, along with other emerging technologies as appropriate. Restricted to: Community Colleges only.

Prerequisite(s): AUTO 113 and AUTO 114.

AUTO 209. Hybrid Vehicle Service Techniques 3 Credits (3)

Designed for experienced automotive technicians, this course will cover safety procedures, design, operational overview and service techniques as well as minor diagnosis and repair of all classifications of hybrid-electric vehicles. Each student must possess legal Class '0' high voltage gloves and liners to attend this class. Restricted to: Community Colleges only.

Prerequisite(s): AUTO 113 and AUTO 114.

AUTO 221. Cooperative Experience I

1-6 Credits

Supervised cooperative work program. Student is employed in an approved occupation and supervised and rated by the employer and instructor. Student will meet in a weekly class. Graded S/U.

Prerequisite: consent of instructor.

AUTO 255. Special Problems in Automotive Technology

1-5 Credits

Individual studies in areas directly related to automotive technologies. May be repeated for a maximum of 12 credits.

Prerequisite: consent of instructor.

AUTO 290. ASE Certification Preparation

1 Credit (1)

This is the capstone course for the Automotive Technology Program and is a requirement for graduation. Consent of Instructor required. Restricted to: AUTO majors. Restricted to Community Colleges campuses

AUTO 295. Special Topics

1-6 Credits

Topics to be announced in the Schedule of Classes.

AVIM - AVIATION MAINTENANCE

AVIM 101. Aviation Science

3 Credits (3)

Provides students with basic technical mathematics skills, an overview of general physics as applied to the work of an Airframe and Powerplant (A&P) technician, and instruction in the reading and interpreting of aircraft drawings. Restricted to Alamogordo campus only.

Prerequisite(s): Appropriate Math placement score.

AVIM 102. Shop Practices

3 Credits (3)

Introduces students to specialty tools, shop safety, workplace practices, basic aviation materials and processes. Students also learn to fabricate fluid lines and fittings, identify type fasteners, and processes for nondestructive testing. Restricted to Alamogordo campus only.

AVIM 103. Ground Operations

3 Credits (3)

Identifies aircraft fuels, cleaning procedures and corrosion removal, as well as ground operation procedures including safety, fueling, and startup of aircraft. Restricted to Alamogordo campus only.

AVIM 104. Federal Regulations

2 Credits (2)

Instruction on how to read, comprehend, and apply all FAA maintenance forms and publications as related to aircraft maintenance. Also describes all rights and privileges of A & P technicians. Restricted to Alamogordo campus only.

AVIM 105. Weight and Balance

2 Credits (2)

Describes proper procedures for weighing and loading aircraft and center of gravity (C.G.) safety and procedures for jacking aircraft. Restricted to Alamogordo campus only.

AVIM 106. Basic Electricity

3 Credits (3)

Explains theories and principles of electricity related to aircraft circuitry. Restricted to Alamogordo campus only.

AXED-AGRICULTURAL EXTN EDUC (AXED)

AXED 1110. Introduction to Agricultural, Extension, and Technology Education

3 Credits (3)

Orientation to programs, philosophies, competencies and leadership skills needed by professionals in agricultural and technology education, extension education, agricultural communications, and related career opportunities in industry, governmental agencies, and international organizations.

AXED 1130. Techniques in Agricultural Mechanization 3 Credits (2+2P)

Development of competencies in agricultural mechanics including safety, tool identification, operation and maintenance of hand and power tools, cold metal, drafting, and plumbing procedures. Designed for any major wishing to improve mechanical skills needed in agriculturally related occupations in education and industry.

AXED 2110. Metal Fabrication

3 Credits (2+4P)

Instruction and skill development in process and procedures of metal fusion, including gas and electric welding techniques, safety, and oxyacetylene cutting and welding. Designed to improve mechanical skills needed in agriculturally related occupations in education and industry.

AXED 2120G. Effective Leadership and Communication in Agriculture 3 Credits (2+2P)

Theory and practice in leadership and communication for professionals who must work effectively in leadership and supervisory roles with people in agricultural business, industry, government agencies, and education. Course focuses on contemporary leadership theories. Oral communication skills in informative and persuasive speaking, parliamentary procedure, and for small groups are developed.

AXED 2130. Early Field-Based Experience

2 Credits (2)

First Hand view of the roles of professional educators through field experiences with Cooperative Extension or other government agencies. Includes 4 weeks of classroom instruction and 30 hours of observation in a work setting. Consent of Instructor required. Restricted to Las Cruces campus only.

AXED 2140. Early Field-Based Experience in Agricultural and Technology Education

2 Credits (2)

First-hand view of the roles of professional educators through field experiences in a secondary agricultural or technology education setting. Includes 4 weeks of classroom instruction and 30 hours of observations in a classroom setting. Consent of Instructor required.

AXED 2996. Special Topics

1-4 Credits

Specific subjects and credits to be announced in the Schedule of Classes. Maximum of 4 credits per semester. No more than 6 credits toward dearee.

B A-BUSINESS ADMINISTRATION (B

B A 104. Introduction to Business

3 Credits (3)

Survey and integration of functions in business organizations within their social and economic environment. Community Colleges only.

B A 105. Special Topics

1-3 Credits

Current topics in business and economics.

B A 202. Small Business Enterprise

3 Credits (3)

Appraisal of business functions within the framework of a small business organization.

B A 291. Business Administration and Economics Internship and Cooperative Education I

1-3 Credits

Introduction and applications of the principles of business administration and economics. Registration in one course allowed per co-op work phase; a minimum of 12 work weeks is required. Open only to students in the College of Business. Option of S/U or a grade. The amount of academic credit (1-3 cr.) will be determined by the academic experience, and not by the work experience.

BCHE-BIOCHEMISTRY (BCHE)

BCHE 140. Introduction to Biochemistry

1 Credit (1)

A description of the nature of inquiry in biochemistry, especially with respect to the interaction of chemistry and biology. Both historical development and topics of current interest will be discussed. Graded S/U.

BCHE 241. Introduction to Research in Biochemistry

1-3 Credits

Techniques and procedures of biochemical research. May be repeated for a maximum of 3 credits.

Prerequisites: 8 credits of chemistry and 3.0 GPA in chemistry.

BCIS-BUSINESS COMPUTER SYSTEMS (BCIS)

BCIS 1110. Introduction to Information Systems 3 Credits (3)

Examination of information systems and their impact on commerce, education, and personal activities. Utilization of productivity tools for communications, data analysis, information management and decision-making.

BCT-BUILDING CONSTRUCTION TECH (BCT)

BCT 100. Building Trades I

8 Credits (2+12P)

Equipment and general safety. Human relations, building construction surveying, footings, foundation form work, framing, sheathing, insulation. Basic electrical wiring and plumbing. Classroom instruction, on- the-job training, and problem solving.

BCT 101. Introduction to Construction I

2 Credits (2+1P)

Basic safety, including personal protective equipment, how to perform basic construction tasks safely, and what to do if an accident occurs. Includes basic construction methods. May be repeated up to 2 credits. Restricted to Community Colleges campuses only.

Corequisite(s): BCT 102;BCT 103.

BCT 102. Introduction to Construction II 2 Credits (2+1P)

Introduction to power and hand tools, blueprints, and basic rigging hardware and techniques. May be repeated up to 2 credits. Restricted to Community Colleges campuses only.

Corequisite(s): BCT 101;BCT 103.

BCT 103. Introduction to Construction Laboratory 3 Credits (3)

Provides students the opportunity to practice skills they have acquired in BCT 101 and BCT 102. It includes task-oriented projects in which students can apply many of the skills and knowledge that have been presented throughout the National Center for Construction and Education Research (NCCER) Carpentry Program. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Corequisite(s): BCT 101; BCT 102.

BCT 104. Woodworking Skills I

3 Credits (1+4P)

Use and care of hand tools and elementary power tools, safety procedures, and supervised project construction.

BCT 105. Woodworking Skills II

3 Credits (1+4P)

Advanced woodworking skills to include use of advanced power tools, power tool safety, and supervised construction.

Prerequisite: BCT 104 or consent of instructor.

BCT 106. Woodworking Theory and Practice 3 Credits (2+2P)

History of wood manufacturing, industrial techniques, wood characteristics, stains and finishes. Design and construction of minor wood projects.

BCT 107. Painting I

4 Credits (2+4P)

Types and applications of paints and clear coatings. Use of fasteners, caulks, and sealants. Restricted to: Community Colleges only.

BCT 109. Plumbing I

3 Credits (2+3P)

Covers orientation to the trade. Students will learn about materials used in the plumbing industry and the different types of plumbing fixtures. It includes task-oriented projects in which the students apply many of the skills and knowledge that are presented through the National Center for Construction and Education Research (NCCER) Plumbing Program. May be repeated up to 3 credits.

Prerequisite(s)/Corequisite(s): BCT 101, BCT 102. Restricted to Community Colleges campuses only.

BCT 110. Blueprint Reading for Building Trades

4 Credits (2+4P)

Same as DRFT 151, OEET 101, OEPB 110.

BCT 111. Small Equipment Maintenance and Repair 4 Credits (2+4P)

Covers small engine theory, troubleshooting and repair, auto maintenance, hydraulic theory and repair lubricants, batteries and scheduled tool maintenance. Restricted to: Community Colleges only.

BCT 114. Basic Carpentry

3 Credits (1+4P)

Covers orientation to the trade; wood building materials, fasteners, and adhesives; detailed description and explanations of hand-operated and power tools, including safety; framing basics including laying out and constructing of wood floors, walls and ceilings and includes roughing in of door and window openings. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Corequisite(s): BCT 115; BCT 116.

BCT 115. Carpentry Level I

3 Credits (1+4P)

Describes the various kinds of roofs and provides instructions for lay out of the different roofing systems. Describes the various types of windows, skylights, and exterior doors and provides instruction for installation. May be repeated up to 3 credits. Consent of Instructor required. Restricted to Community Colleges campuses only.

Corequisite(s): BCT 114; BCT 116.

BCT 116. Basic Carpentry Lab

2 Credits (2)

Provides students the opportunity to practice skills they have acquired in BCT 114 and BCT 115. It includes task-oriented projects in which students can apply many of the skills and knowledge that have been presented throughout the National Center for Construction and Education Research (NCCER) Carpentry Program. May be repeated up to 2 credits. Restricted to Community Colleges campuses only.

Corequisite(s): BCT 114; BCT 115.

BCT 117. Plumbing 1A

3 Credits (2+2P)

This course will introduce students to the plumbing profession. Students will become familiar with the tasks and responsibilities of plumbing professionals in the construction industry and gain a basic knowledge of the plumbing field. Restricted to Community Colleges campuses only.

BCT 118. Math for Building Trades

3 Credits (3)

Geometry, algebra, arithmetic, and basic trigonometry pertaining to mathematical applications in the building trades field. Same as OEET 118, DRFT 118, OEPB 118.

Prerequisite: CCDM 103 N. BCT 123. Residential Wiring I

3 Credits (2+3P)

Introduction to residential electrical wiring trade, electrical safety practices, basic electrical circuits and theory, reading and interpreting applicable construction prints/drawings, introduction to basic National Electric Code (NEC), and preparation for entry-level employment in residential electrical wiring. Restricted to Community Colleges campuses only.

BCT 130. Professional Development and Leadership 1 Credit (1)

As members and/or officers of various student professional organizations, students gain experience in leadership, team building, and community service. Students competing or participating in Skills USA are required to register for the course. May be repeated up to 6 credits. Consent of Instructor required. Restricted to: BCT majors. Graded: S/U Grading (S/U, Audit). Restricted to: Community Colleges only.

BCT 150. Forklift Operation

1 Credit (1)

Classroom instruction and hands-on practice to prepare students to operate a forklift safely in the workplace. Students will have the opportunity to earn a forklift operator's permit. Consent of Instructor required. Restricted to Community Colleges campuses only.

BCT 200. Building Trades II

8 Credits (2+12P)

Continuation of BCT 100: roofing; exterior and interior finish; masonry; door, window, and cabinet installation.

BCT 206. Advanced Cabinetmaking

3 Credits (1+3P)

Advanced cabinetmaking skills, to include expert use of hand and power tools, professional construction and finishing techniques.

Prerequisites: BCT 105, BCT 106, or consent of instructor.

BCT 209. Plumbing II 3 Credits (2+3P)

Continuation of BCT 109. Provides students the opportunity to gain more practice in the skills and knowledge learned in Plumbing I. Students will install fixtures and run the various plumbing supply lines from Plumbing Level I. The course included hands on projects in which the students apply many of the competencies that have been presented through the National Center for Construction and Education Research (NCCER) Plumbing Program. May be repeated up to 3 credits.

Prerequisite(s)/Corequisite(s): BCT 109.

BCT 217. Building and the Environment

3 Credits (3)

Introduction to LEED's, and Green Building Fundamentals, sustainability, sustainable design and green building evaluating cost implication of green building. Describes site development; managing site water runoff, improving a project's water use efficiency. Discusses renewable energy sources, and introduces student to generating power on-site using renewable energy sources, improving a building's indoor environment quality, improving the building industries' environmental performance and environmental aspects of building maintenance, re-use and conservation.Restricted to: Community Colleges only.

BCT 218. Plumbing 2

4 Credits (2+4P)

This course builds on the skills and knowledge students have gained in previous BCT introduction to plumbing courses, focusing on installation of plumbing systems. Students will become familiar with the tasks and responsibilities of plumbing professionals in the construction industry and gain a basic knowledge of the plumbing field.

Prerequisite(s): BCT 117 and BCT 119.

BCT 219. Weatherization in Construction

3 Credits (2+2P)

Introduction to industry weatherization standards and practices utilized in the construction of buildings for the purpose of energy conservation. Economic and environmental impacts of the use of energy in heating and cooling building will be examined.

Prerequisite(s): BCT 101, BCT 102 and BCT 103.

BCT 221. Cooperative Experience I

1-4 Credits

Supervised cooperative work program. Student is employed in an approved occupation and is supervised and rated by the employer and instructor. Student will meet in a weekly class. Graded S/U.

Prerequisite: consent of instructor.

BCT 223. Residential Wiring II

3 Credits (2+3P)

Introduction to electrical raceways and fittings; electrical conductors and cables; basic electrical construction drawings, residential electrical services, and electrical test equipment. Restricted to Community Colleges campuses only.

Prerequisite(s): BCT 123.

BCT 255. Special Topics

1-6 Credits (1-6)

Topics to be announced in the Schedule of Classes. May be repeated up to 12 credits. Consent of Instructor required. Restricted to Community Colleges campuses only.

BCT 290. Special Problems in Building Technology

1-4 Credits

Individual studies in areas directly related to building technologies. **Prerequisite:** consent of instructor.

BFIN-BUSINESS FINANCE

BFIN 2110. Introduction to Finance

3 Credits (3)

Introduces tools and techniques of financial management. Includes time value of money; financial planning, diversification and risk; debt and equity investment decisions; and financial statement analysis.

Prerequisite(s): OATS 106 or higher; OATS 120 or ACCT 2110; ECON 1110G or ECON 2110G.

BIOL-BIOLOGY (BIOL)

BIOL 1120G. Human Biology

3 Credits (3)

This course is an introduction to modern biological concepts with an emphasis on the relevance to humans and their relationships with the environment.

BIOL 1120L. Human Biology Laboratory 1 Credit (3P)

This course introduces exercises, experiences, and activities exploring biological concepts and theories relevant to humans and their relationship to the environment in a laboratory setting.

Prerequisite(s)/Corequisite(s): BIOL 1120G.

BIOL 1130G. Introductory Anatomy & Physiology (non-majors) 4 Credits (3+3P)

This course introduces the anatomy (structure) and physiology (function) of the human body, which includes the study of basic chemistry, molecules, cells, tissues, organs, organ systems, and terminology related to these concepts. May be repeated up to 4 credits. Restricted to Community Colleges campuses

BIOL 1190G. Contemporary Problems in Biology 4 Credits (3+3P)

Fundamental concepts of biology will be presented using examples from relevant problems in ecology, medicine and genetics. For nonscience majors only. Community Colleges only.

BIOL 1996. Topics in Biology

1-3 Credits (1-3)

Introductory level coverage of biological topics. May be repeated up to 9 credits.

BIOL 2110G. Principles of Biology: Cellular and Molecular Biology 3 Credits (3)

This course introduces students to major topics in general biology. This courses focuses on the principles of structure and function of living things at the molecular, cellular and organismic levels of organization. Major topics included are introduction to the scientific process, chemistry of cells, organization of cells, cellular respiration, photosynthesis, cell division, DNA replication, transcription, and translation. Must be taken with BIOL 2110L to meet general education requirements. May be repeated up to 3 credits.

Prerequisite(s): a C- or better in MATH 1215 or higher and a C- or better in CHEM 1120G or CHEM 1215G or CHEM 1216.

BIOL 2110L. Principles of Biology: Cellular and Molecular Biology Laboratory

1 Credit (3P)

This course introduces students to major topics in general biology. This courses focuses on the principles of structure and function of living things at the molecular, cellular and organismic levels of organization. Major topics included are introduction to the scientific process, chemistry of cells, organization of cells, cellular respiration, photosynthesis, cell division, genetics, DNA replication, transcription, and translation. May be repeated up to 1 credits.

Prerequisite/Corequisite(s): BIOL 2110G; Prerequisite(s): MATH 1215 or higher, and a C- or better in CHEM 1120G or CHEM 1215G or CHEM 1216.

BIOL 2210. Human Anatomy and Physiology I for the Health Sciences 4 Credits (3+3P)

This course is the first of two that serve as an introduction to human anatomy and physiology for biology majors and allied health students. The course entails describing, explaining, and analyzing structure and function from the submicroscopic to the organismal level with emphasis on anatomic, directional, and sectional terminology, basic cellular structure and metabolism, tissue differentiation and characteristics, and organ system structure and function; Specifically the integumentary, skeletal, muscular, and nervous systems.

Prerequisite(s)/Corequisite(s): CHEM 1120G or CHEM 1215G. Restricted to: Community Colleges only.

BIOL 2221. Human Physiology

3 Credits (3)

Physical and chemical operation of the organs and systems of the human body. Not open to students who have passed BIOL 354 or BIOL 381.

Prerequisite(s): Grade of at least C- in BIOL 2110G; BIOL 2110L;

CHEM 1215G or CHEM 1120G.

BIOL 2225. Human Anatomy and Physiology II 4 Credits (3+3P)

This course is the second of two that serve as an introduction to human anatomy and physiology for biology majors and allied health students. The course entails describing, explaining, and analyzing structure and function from the submicroscopic to the organismal level with emphasis on specific cellular, tissue, and organ structure and physiology, and organ system structure and function; specifically the endocrine, cardiovascular, respiratory, urinary, and reproductive systems. Additionally, an analysis of these concepts is included: fluid and electrolyte balance, pregnancy, growth and development from zygote to newborn, and heredity. Restricted to: Community Colleges only.

Prerequisite(s): BIOL 2210, CHEM 1120G or CHEM 1215G.

BIOL 2310. Microbiology

3 Credits (3P)

Introduction to the basic principles of microbiology, microbial pathogenesis, host defenses and infectious diseases. The course will emphasize concepts related to the structure and function of microorganisms, including their mechanisms of metabolism and growth. Host parasite interactions will also be emphasized, including mechanisms of microbial pathogenesis and mechanisms of host defenses against infectious diseases. Restricted to Community Colleges campuses only.

Prerequisite(s): CHEM 1120G or CHEM 1215G or CHEM 1225G. Corequisite(s): BIOL 2310L.

BIOL 2310L. Microbiology Lab 1 Credit (3P)

This course will emphasize both the theory and hands-on application of techniques used in a microbiology laboratory for the growth and identification of bacterial species. Students will learn microscopy skills and staining techniques for the observation of bacteria. Students will also learn aseptic techniques used for isolation of bacteria, inoculation of cultures, and interpretation of selective and differential growth media for the identification of bacterial species.

Prerequisite: BIOL 2310 or BIOL 2320 or concurrent enrollment.

BIOL 2320. Public Health Microbiology 3 Credits (3)

This course introduces microbiology on the health profession level. It incorporates cell structure, metabolism, growth, controls of growth, infectious epidemiology, etiology, pathogenicity, and relative virulence of pathogens. It will lead to students assessing a clinical infection scenario from the microbiological perspective that includes making diagnoses based on data from appropriate diagnostic tests, investigating appropriate treatment options, and making recommendations for prevention.

Prerequisite: BIOL 2110G and BIOL 2110L.

BIOL 2505. Pathophysiology

3 Credits (3)

This course is designed to provide the conscientious student with a solid foundation for understanding the pathophysiological processes of the human organism. Successful completion of this course will promote the general student learning outcomes listed below. Corequisite/Prerequisites(s): AHS 154 or BIOL 2225. Restricted to: Community Colleges only.

Prerequisite(s): AHS 153 or BIOL 2210. BIOL 2511. Human Pathophysiology 3 Credits (3)

The first in a two-course sequence that covers changes in body physiology that result from disease or injury. Includes a general introduction to pathophysiology as well as an overview of altered cellular and tissue biology, injury, inflammation, and neoplasia. Students will also explore deviation from fluid, hemodynamic, and endocrinologic balance. Topics related to the science of pathophysiology, including pathology, pathogenesis, etiology, epidemiology, and clinical manifestations, are also discussed throughout the course where relevant. Grade of C- or higher in microbiology is recommended. Restricted to Community Colleges campuses only.

Prerequisite(s): Grade of C- or higher in BIOL 2210 and BIOL 2225.

BIOL 2512. Human Pathophysiology I

3 Credits (3)

The second in a two-course sequence that covers changes in body physiology that result from disease or injury. This course focuses on the pathophysiology of the nervous, cardiovascular, lymphatic, respiratory, digestive, urinary, and reproductive systems. Topics related to the science of pathophysiology, including pathology, pathogenesis, etiology, epidemiology, and clinical manifestations, are also discussed throughout the course where relevant. Grade of C- or higher in microbiology is recommended. Restricted to Community Colleges campuses only.

Prerequisite(s): Grade of C- or higher in BIOL 2210, BIOL 2225, and BIOL 2511.

BIOL 2610G. Principles of Biology: Biodiversity, Ecology, and Evolution 3 Credits (3)

This course is an introduction to the dynamic processes of living things. Major topics include the mechanisms of evolution, biological diversity, Mendelian genetics, and ecology. May be repeated up to 3 credits. Prerequisite(s)/Corequisite(s): grade of C- or better in MATH 1215 or higher, or a Math Placement Exam score adequate to enroll in mathematics courses beyond MATH 1215.

BIOL 2610L. Principles of Biology: Biodiversity, Ecology, and Evolution Laboratory

1 Credit (3P)

This laboratory course is an introduction to the dynamic processes of living things. This course introduces students to the methods used in the study of Mendelian genetics, evolution, ecology, and biological diversity. Designed for students continuing in life sciences. May be repeated up to 1 credits.

Prerequisite(s): BIOL 2610G; grade of C- or better in MATH 1215 or higher, or a Math Placement Exam score adequate to enroll in mathematics courses beyond MATH 1215.

BIOL 2996. Special Topics

1-3 Credits

Specific subjects to be announced in the Schedule of Classes. May be repeated for a maximum of 6 credits. Community Colleges only.

BLAW-BUSINESS LAW (BLAW)

BLAW 2110. Business Law I

3 Credits (3)

Survey of the legal environment of business and common legal principles including: the sources of law, dispute resolution and the U.S. court systems, administrative law, tort law, contract law, agency and employment law, business structure and governance, ethics and corporate social responsibility. Explores sources of liability and presents strategies to minimize legal risk. Offered at all NMSU Community Colleges except Dona Ana Community College. Credit may not be earned in both BLAW 2110 and BLAW 317.

BLED-BILINGUAL EDUCATION

BLED 1110. Introduction n Bilingual Education/ESL 3 Credits

An overview of the American Education system with emphasis on organization, governance, law, demographics, and professional practice. Will include supervised experience in bilingual education/ESL elementary settings for prospective bilingual education/ESL teachers.

BLED 2110. Bilingual Methods

3 Credits (3)

This course provides a historical overview of bilingual and ESL education including an emphasis on present trends and practices. Discussions of the aspects of bilingualism at both an individual and a societal level are included.

BMGT-BUSINESS MANAGEMENT (BMGT)

BMGT 112. Banks and Your Money

3 Credits (3)

Banking in today's economy: language and documents of banking, check processing, teller functions, deposit function, trust services, bank bookkeeping, loans, and investments. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

BMGT 126. Retail Management

3 Credits (3)

Phases of retailing, including types of retail outlets and basic problems of organizing and operating a retail store. Restricted to: Community Colleges only.

BMGT 132. Principles of Selling

3 Credits (3)

Analysis of customer behavior, persuasive communication, process of the sales interview. Restricted to: Community Colleges only.

BMGT 136. Forecasting Business Activity

3 Credits (3)

Course covers the important elements of forecasting all types of business activities including inventory control, revenue forecasts, staffing, and other industry specific activities using metrics and data analysis processes. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): BUSA 1110.

BMGT 138. Advertising

3 Credits (3)

Psychological approach to non-personal consumer persuasion; applied techniques in media selection, layout mechanics, production methods, and campaign structures. Restricted to: Community Colleges only.

BMGT 140. Principles of Supervision I

3 Credits (3)

Principles of supervision emphasizing planning, organization, rating of employees and procedures to develop good morale. Introduction to interpretation of case studies. Restricted to: Community Colleges only.

BMGT 150. Income Taxation

3 Credits (3)

Federal income taxation of individuals, sole proprietorships, partnerships, corporations, trusts, and estates with particular reference to CLU, life insurance and annuities. Restricted to: Community Colleges only.

BMGT 155. Special Topics I

1-3 Credits (1-3)

Introductory special topics of lower division level work that provides a variety of timely subjects and content material. May be repeated up to 9 credits. Restricted to Community Colleges campuses only.

BMGT 160. Self-Presentation and Etiquette

3 Credits (3)

Introduction to business etiquette based on tradition, social expectations, and professional behavior standards. Restricted to: Community Colleges only.

BMGT 201. Work Readiness and Preparation 3 Credits (3)

Instruction in methods of selection, seeking, acquiring and retaining employment. Addresses work success skills, business etiquette, employer expectation and workplace norms. Restricted to Community Colleges campuses only.

BMGT 205. Customer Service in Business

3 Credits (3)

Establishes concepts of service quality in relationship to business success and maximization of returns to the organization. Explores techniques for delivering quality and service in a variety of business settings. Restricted to: Community Colleges only.

BMGT 208. Business Ethics

3 Credits (3)

The course examines the underlying dimensions of ethics in business, investigating ethics in relationship to the organization, the stakeholders, and society. Exploration of ethical issues from a historical context, analyzing actual events through the lens of business decision making, including legal/political, sociocultural, economic, and environmental considerations will be undertaken. Restricted to Community Colleges campuses only.

BMGT 216. Business Math

3 Credits (3)

Application of basic mathematical procedures to business situations, including percentage formula applications, markup, statement analysis, simple and compound interest, and annuities. Restricted to: Community Colleges only.

Prerequisite(s): CCDM 103 N or satisfactory math score on ACT.

BMGT 221. Internship I

1-3 Credits (1-3)

Work experience that directly relates to a student's major field of study that provides the student an opportunity to explore career paths and apply knowledge and theory learned in the classroom. Internships may be paid or unpaid. Students are supervised/evaluated by both the employer and instructor. May be repeated up to 3 credits. Consent of Instructor required. Restricted to: BMGT majors. Graded: S/U Grading (S/U, Audit). Restricted to Community Colleges campuses only.

BMGT 225. Introduction to Commercial Lending

3 Credits (3)

Commercial lending overview, the lending process, portfolio management, and regulation and business development. Restricted to: Community Colleges only.

Prerequisite(s): BMGT 112.

BMGT 232. Personal Finance

3 Credits (3)

Budgeting, saving, credit, installment buying, insurance, buying vs. renting a home, income tax statement preparation, investment, and estate disposal through will and trust. Restricted to: Community Colleges only.

BMGT 236. Small Business Start-Up

3 Credits (3)

Starting a small business is a complex endeavor that requires specialized knowledge. This course prepares students to take the first step in business ownership and operations. Restricted to Community Colleges campuses

BMGT 237. Managing Small Businesses

3 Credits (3)

Managing a small business requires the owner/operator to be proficient in a number of skills and technical areas. This course provides small business owners/operators with the training and essential knowledge to manage a small business. Restricted to Community Colleges campuses

BMGT 240. Human Relations

3 Credits (3)

Human interactions in business and industrial settings. Motivation and learning experiences as related to problems of the worker and supervisor. Practical applications of human behavior. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

BMGT 247. Customer Relationship Management 3 Credits (3)

The course addresses the application of positive customer relationship practices and demonstrates the connection between managing excellent customer experiences and business success. Customer related decision making processes through the use of data based decision matrices are introduced. Restricted to Community Colleges campuses

BMGT 248. Introduction to Quality Management 3 Credits (3)

3 Credits (3)
Introductory practices of total quality management practices aimed at all

levels of an organization to continually improve performance to include competitiveness in today s business world. Restricted to: Community Colleges only.

BMGT 250. Diversity in the Workplace

3 Credits (3)

Concepts of culture, diversity, prejudice, and discrimination within the domestic workforce/society. Restricted to Community Colleges campuses only.

Prerequisite(s): BUSA 1110.

BMGT 260. Real Estate Practice

3 Credits (3)

This course is a requirement for licensure in real estate for the state of New Mexico. Topics covered include: real estate finance, settlement, foreclosure, federal taxation, valuation and appraisal, land descriptions and math skills. These topics are requirements of the New Mexico Real Estate Commission. Restricted to: Community Colleges only.

BMGT 264. Real Estate Law

3 Credits (3)

This course is a requirement for licensure in real estate for the state of New Mexico. Topics covered include: ownership of real estate, real estate brokerage relationships, contracts, environmental concerns and federal laws that affect real estate. These topics are requirements of the New Mexico Real Estate Commission. Restricted to: Community Colleges only. Crosslisted with: PL S 264

BMGT 272. E-Commerce Operations

3 Credits (3)

Includes the many forms of e-commerce and emerging technologies that will impact the business of tomorrow. Restricted to Community Colleges campuses only.

Prerequisite(s): OECS 105 or BCIS 1110.

BMGT 277. Entrepreneurship II - Small Business Management 3 Credits (3)

This course is designed to acquaint the student with the opportunities encountered in the management and operations of a small business enterprise. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): ENTR 1110.

BMGT 280. Introduction to Human Resources

3 Credits (3)

Personnel functions encompassing job analysis, recruitment, selection, training, appraisals, discipline, and terminations. Prerequisite(S): BUSA 1110 or B A 104. Restricted to Community Colleges campuses only.

BMGT 282. Introduction to International Business Management 3 Credits (3)

Overview of the social, economic and cultural environment of international business transactions. Restricted to Community Colleges only.

Prerequisite(s): BUSA 1110.

BMGT 285. Introduction to Manufacturing Operations 3 Credits (3)

Introduction to issues related to manufacturing, including an overview of the production function, product design and development, location, layout, forecasting, planning, purchasing, materials/inventory, and quality management. Restricted to Community Colleges campuses only.

Prerequisite(s): BUSA 1110 and (BMGT 140 or MGMT 2110).

BMGT 286. Introduction to Logistics

3 Credits (3)

Overview on the planning, organizing, and controlling of transportation, inventory maintenance, order processing, purchasing, warehousing, materials, handling, packaging, customer service standards, and product scheduling. Restricted to: Community Colleges only.

BMGT 287. Introduction to Export/Import

3 Credits (3)

Procedures and documentation for exporting and importing products. Emphasis on NAFTA regulations and other U.S. border operations crossings. Restricted to Community Colleges only.

Prerequisite(s): BUSA 1110.

BMGT 290. Applied Business Capstone

3 Credits (3)

Refines skills and validates courses taken in BMGT program. Business simulations, case studies and projects used to test and improve business practices. Student must be within 25 credits of graduation. May be repeated up to 3 credits. Restricted to: BMGT majors. Restricted to Community Colleges campuses only.

Prerequisite(s): BUSA 1110, and (BMGT 140 or MGMT 2110), and (BMGT 240 or SOCI 1110G or PSYC 1110G), and MKTG 2110 and BFIN 2110.

BMGT 298. Independent Study

3 Credits (3)

Individual studies directed by consenting faculty with prior approval of department chair. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): Sophomore standing with 3.0 GPA.

BOT-BUSINESS OFFICE TECHNOLOGY (BOT)

BOT 298. Independent Study

1-3 Credits

Individual studies directed by consenting faculty with prior approval of department head. May be repeated for a maximum of 3 credits. **Prerequisite:** sophomore standing with 3.0 GPA.

BUSA-BUSINESS ADMINISTRATION (BUSA)

BUSA 1110. Intro to Business

3 Credits (3)

Fundamental concepts and terminology of business including areas such as management, marketing, accounting, economics, personnel, and finance; and the global environment in which they operate.

C E-CIVIL ENGINEERING (C E)

C E 109. Computer Drafting Fundamentals

3 Credits (2+2P)

Same as DRFT 109, ET 109, SUR 109.

C E 151. Introduction to Civil Engineering

3 Credits (3)

Problem solving and use of computer software for civil engineering applications. May be repeated up to 3 credits.

Prerequisite(s)/Corequisite(s): MATH 1220G.

C E 198. Special Topics

1-3 Credits

May be repeated for a maximum of 6 credits.

Prerequisite: consent of department head.

C E 233. Mechanics-Statics

3 Credits (3)

Engineering mechanics using vector methods. May be repeated up to 3 credits

Prerequisite(s): MATH 1521G or MATH 1521H, PHYS 1310G and cumulative GPA of 2.0.

C E 234. Mechanics-Dynamics

3 Credits (3)

Kinematics and dynamic behavior of solid bodies utilizing vector methods. May be repeated up to 3 credits. Crosslisted with: M E 234. **Prerequisite(s):** C E 233, MATH 1521G or MATH 1521H, PHYS 1310G.

C E 256. Environmental Engineering and Science 3 Credits (3)

Principles in environmental engineering and science: physical chemical systems and biological processes as applied to pollution control. Crosslisted with: ENVS 2111

Prerequisite(s): CHEM 1215G and MATH 1511G.

C E 256 L. Environmental Science Laboratory

1 Credit (1P)

Laboratory experiments associated with the material presented in C E 256. Same as ENVS 2111L.

Corequisite(s): C E 256. C E 298. Special Topics

1-3 Credits

May be repeated for a maximum of 6 credits.

Prerequisite: consent of department head.

C S-COMPUTER SCIENCE (C S)

C S 111. Computer Science Principles

4 Credits (3+2P)

This course provides a broad and exciting introduction to the field of computer science and the impact that computation has today on every aspect of life. It focuses on exploring computing as a creative activity and investigates the key foundations of computing: abstraction, data, algorithms, and programming. It looks into how connectivity and the Internet have revolutionized computing and demonstrates the global impact that computing has achieved, and it reveals how a new student in computer science might become part of the computing future.

Prerequisite(s): MATH 1215 or higher.

C S 117. Introduction to Computer Animation 3 Credits (3)

Introductory course for learning to program with computer animation as well as learning basic concepts in computer science. Students create interactive animation projects such as computer games and learn to use software packages for creating animations in small virtual worlds using 3D models. Recommended for students considering a minor/major in computer science or simply interested in beginning computer animation

or programming.

C S 151. C++ Programming

3 Credits (2+2P)

Introduction to object-oriented programming in the C++ language. May be repeated up to 3 credits.

Prerequisite(s): MATH 1215 or higher.

C S 152. Java Programming

3 Credits (2+2P)

Programming in the Java language. May be repeated up to 3 credits.

Prerequisite(s): MATH 1215 or higher.

C S 153. Python Programming I

3 Credits (3)

This course is an introduction to programming in the Python language, covering fundamental scripts, data types and variables, functions, and simple object creation and usage. The focus will be on preparing students to use Python in their own areas. No prior programming experience is required.

Prerequisite(s): MATH 1215 or higher.

C S 154. Python Programming II

3 Credits (3)

This course covers advanced Python programming, including classes, objects, and inheritance, embedded programming in domain applications, database interaction, and advanced data and text processing. The focus will be on preparing students to use Python in their own areas.

Prerequisite(s): CS 153 or CS 453.

C S 157. Topics in Software Programming and Applications 3 Credits (2+2P)

Current topics in computer programming and software applications. Topic announced in the Schedule of Classes. May be repeated if subtitle is different.

C S 158. R Programming I

3 Credits (3)

This course is an introduction to data processing in the R language, covering fundamental script configuration, data types and data collections, R control structures, and basic creation of graphs and data visualizations. This course will not focus on the statistical capabilities of R, though some basic statistical computations will be used.

Prerequisite(s): MATH 1220G.

C S 171G. Introduction to Computer Science

4 Credits (3+2P)

Computers are now used widely in all area of modern life. This course provides understanding of the theoretical and practical foundations for how computers work, and provides practical application and programming experience in using computers to solve problems efficiently and effectively. The course covers broad aspects of the hardware, software, and mathematical basis of computers. Weekly labs stress using computers to investigate and report on data-intensive scientific problems. Practical experience in major software applications includes an introduction to programming, word processing, spreadsheets, databases, presentations, and Internet applications.

Prerequisite(s): MATH 1130G or MATH 1215 or higher.

C S 172. Computer Science I

4 Credits (3+2P)

Computational problem solving; problem analysis; implementation of algorithms using Java. Object-oriented concepts, arrays, searching, sorting, and recursion. May be repeated up to 4 credits. Crosslisted with: C.S. 460

Prerequisite(s): (A C or better in either MATH 1250G or MATH 1430G) OR (A C or better in MATH 1220G and a 1 or better in the CS Placement Test).

C S 209. Special Topics.

1-3 Credits

May be repeated for a maximum of 12 credits.

C S 271. Object Oriented Programming 4 Credits (3+2P)

Introduction to problem analysis and problem solving in the objectoriented paradigm. Practical introduction to implementing solutions in the C++ language. Pointers and dynamic memory allocation. Handson experience with useful development tools. May be repeated up to 4 credits.

Prerequisite(s): At least a C- in C S 172 or E E 112.

C S 272. Introduction to Data Structures 4 Credits (3+2P)

Design, implementation, use of fundamental abstract data types and their algorithms: lists, stacks, queues, deques, trees; imperative and declarative programming. Internal sorting; time and space efficiency of algorithms.

Prerequisite(s): At least a C- in C S 172, or placement.

C S 273. Machine Programming and Organization 4 Credits (3+2P)

Computer structure, instruction execution, addressing techniques; programming in machine and assembly languages. May be repeated up to 4 credits.

Prerequisite(s): At least a C- in C S 172 or E E 112.

C S 278. Discrete Mathematics for Computer Science 4 Credits (3+2P)

Discrete mathematics required for Computer Science, including the basics of logic, number theory, methods of proof, sequences, mathematical induction, set theory, counting, and functions. **Prerequisite(s):** At least C- in C S 172.

CCDE-DEVELOPMENTAL ENGLISH (CCDE)

CCDE 110 N. General Composition 4 Credits (3+2P)

Instruction and practice in preparation for college-level writing. Students will develop and write short essays. Provides laboratory. May be repeated up to 4 credits. Traditional Grading with RR. Restricted to Community Colleges campuses only.

CCDM-DEVELOPMENTAL MATHEMATICS (CCDM)

CCDM 100 N. Mathematics Preparation for College Success 1-4 Credits

Mathematics skills course designed for college students with math skills insufficient for success in CCDM 103N. May be repeated for a maximum of 4 credits. RR applicable.

CCDM 103 N. Pre-Algebra

4 Credits (3+2P)

Fundamental mathematics operations and arithmetic computations. Introduction to algebra and applied geometry. Provides laboratory and individualized instruction. RR applicable.

CCDM 105 N. Mathematics Preparation and Pre-Algebra 5 Credits (4+2P)

A total immersion course that combines CCDM 100N and CCDM 103N using tutorials, manipulatives, and classroom instruction. Completion of this class is equivalent to the completion of CCDM 100N and CCDM 103N. Restricted to: Community Colleges only.

CCDM 107 N. Pre-Algebra Fast-Track

1 Credit (1)

An intensive review of fundamental mathematics operations and arithmetic computations. A review of introductory concepts of algebra and applied geometry. Students must meet eligibility requirements (Math Placement Exam). Graded: S/U Grading (S/U, Audit). Restricted to Community Colleges campuses only.

Prerequisite(s): Math Placement Exam.

CCDM 108 N. Beginning Algebra Fast-Track 1 Credit (1)

An intensive review of fundamental algebra topics including algebraic expressions, solving linear and quadratic equations, factoring, radicals, exponents. Students must meet eligibility requirements (math placement exam or completion of CCDM 107N). Graded: S/U Grading (S/U, Audit). Restricted to Community Colleges campuses only.

Prerequisite(s): Math Placement Exam; or passing score in CCDM 105 N or CCDM 103 N, or CCDM 107 N.

CCDM 112 N. Developmental Algebra I 4 Credits (3+2P)

Fundamental algebra operations, algebraic expressions, solving linear equations, systems of equations and applications of linear equations. Introduction to exponents and polynomials. Provides laboratory instruction. Completion of CCDM 112N and CCDM 113N is equivalent to completion of CCDM 114N. Graded: Traditional with RR. Traditional Grading with RR. Restricted to Community Colleges campuses only. **Prerequisite(s):** Grade of C or better in CCDM 103N or CCDM 105N or adequate placement score.

CCDM 113 N. Developmental Algebra II 4 Credits (3+2P)

Fundamental algebra operations, polynomials, factoring, solving quadratics by factoring, rational expressions, exponents and radical expressions (continuation of CCDM 112N). Provides laboratory instruction. Completion of CCDM 112N and CCDM 113N is equivalent to completion of CCDM 114N. Graded: Traditional with RR. Restricted to: Community Colleges only.

Prerequisite(s): Grade of C or better in CCDM 112N or consent of instructor.

CCDM 114 N. Algebra Skills

4 Credits (3+2P)

Fundamental algebra operations: algebraic expressions, solving linear and quadratic equations, factoring, radicals, exponents. Provides laboratory and individualized instruction. Completion of CCDM 114N meets basic skills requirement. Graded: Traditional with RR. Traditional Grading with RR. Restricted to Community Colleges campuses only. **Prerequisite(s):** C or better in CCDM 103N or CCDM 105N or adequate placement score.

CCDR-DEVELOPMENTAL READING (CCDR)

CCDR 103 N. Comprehensive Reading Development 4 Credits (3+2P)

Provides integration of basic reading skills, including vocabulary development, text comprehension, and critical reading skills. Course earns institutional credit but will not count towards degree requirements. May be repeated up to 4 credits. Traditional Grading with RR. Restricted to Community Colleges campuses only.

Prerequisite(s): Appropriate placement score.

CCDR 105 N. Fundamentals of Academic Reading. 3 Credits (2+2P)

Fundamentals of academic reading skills. Emphasis on vocabulary development and text comprehension through literature based instruction. Course earns institutional credit but will not count towards degree requirements. Graded: Traditional with RR. May be repeated up to 3 credits. Traditional Grading with RR. Restricted to Community Colleges campuses only.

Prerequisite(s): Appropriate placement score.

CCDR 110 N. Effective College Reading

3 Credits (2+2P)

Provides a variety of strategies for effective reading and studying at the college level. Emphasis on reading across disciplines. Course earns institutional credit but will not count towards degree requirements. Graded: Traditional with RR. May be repeated up to 3 credits. Traditional Grading with RR. Restricted to Community Colleges campuses only. Prerequisite(s): Appropriate placement score.

CCDS-DEVELOPMENTAL SKILLS (CCDS)

CCDS 109 N. Study Skills for Reading

1-3 Credits

Individualized reading skill strategies necessary for success in college classroom. May be repeated for a maximum of 3 credits. Graded traditional or S/U.

CCDS 111 N. Study Skills for Math

1-3 Credits

Individualized study skill strategies necessary for success in the math classroom. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

CCDS 113 N. Study Skills for English

1-3 Credits

Individualized study skill strategies necessary for success in the composition classroom. May be repeated for a maximum of 3 credits.

CCDS 119 N. College Reading and Writing

4 Credits (4)

Instruction and practice in preparation for college-level reading and writing. Students will develop and write essays, work on the writing process, and learn to read and analyze college-level texts. Traditional Grading with RR.

Prerequisite(s): Appropriate placement test score.

CEPY-COUNSELING & EDUCATIONAL PSYCHOLOGY

CEPY 1120G. Human Growth and Behavior

3 Credits (3)

Introduction to the principles of human growth and development throughout the life span.

CEPY 1150. Career Development

1 Credit (1)

Professional career curriculum to assist students in developing an understanding and ability to articulate who they are as emerging professionals through personal assessment activities. The focus will be on providing students with tools and strategies for reflection, planning, and goal-setting. Course does not count toward CEP minor. Spring only course offering. Restricted to: College of Education Majors only majors. Restricted to Las Cruces campus only.

CEPY 1160. Academic Development

1 Credit (1)

The course is designed to provide you students with a foundation in their personal academic process. The course will assist students in developing an understanding and ability to articulate who they are as beginning college students through personal assessment activities. The focus will be on providing students with tools and strategies for reflection, planning, and goal-setting. Topics discussed will include time management, study skills, test taking skills, stress management, motivational and academic discipline skills, interpersonal skills and college survival skills. We intend for this to be a supportive, respectful and collaborative environment where everyone can learn and grow. Fall only course offering. Restricted to: College of Education majors.

CEPY 2110. Learning in the Classroom

3 Credits (3)

This class introduces you to the basic principles of learning, including cognition, motivation, and assessment. You will examine the relationships between theory, research, and practice in learning, memory, child development, motivation, and educational assessment for the school setting. This course will provide the student with concepts and principles of educational psychology that will form a framework for thinking about learning and instruction and how theories of learning are connected to classroom situations

CEPY 2120. The Preschool Child

3 Credits (3)

Survey of psychological development from conception to age five.

CEPY 2130. Adolescence - School Setting 3 Credits (3)

This course is designed to present the student with an introduction to the area of adolescent development with an emphasis on the positive aspects of this life stage. Students will be encouraged to be reflective on the topics presented in class that will include issues on diversity, culture, health, and well-being, emerging adulthood and suggestions for improving the lives of adolescents.

CEPY 2140. Explorations of Counseling & Community Psychology 3 Credits (3)

An introduction and exploration of various career options and functions within the mental health disciplines to aid in professional development. Emphasis will be placed on depth and scope of the choices available including research, teaching, community work, public policy, and clinical work and prevention (e.g. counseling, psychotherapy, assessment, consultation). May be repeated up to 6 credits.

CEPY 2140H. Exploration of CCP

3 Credits (3)

An exploration of careers, activities, & techniques in counseling, school, and community psychology. Taught with CEPY 2140 with differentiated instruction and/or independent project to be determined. Restricted to Las Cruces campus only.

CHEF-CULINARY ARTS (CHEF)

CHEF 101. Culinary Arts Kitchen Orientation 3 Credits (3)

Provides students with basic information and skills necessary for success in the Culinary Arts program. Students learn basic kitchen routines, safety and sanitation, professional conduct and deportment, standard kitchen calculations, knife handling, and are introduced to the laboratories for initial cooking experiences. Restricted to Community Colleges campuses only.

CHEF 125. Introductory Cake Decorating 1 Credit (2P)

Introduction to the professional cake decorating techniques used by pastry chefs. Basic skills of piping a variety of icings into different patterns are taught. Restricted to Community Colleges campuses only. **Prerequisite(s):** Consent of instructor.

CHEF 126. Intermediate Cake Decorating 1 Credit (2P)

Introduction to more advanced professional cake decorating techniques used by pastry chefs. Fondant work and more complex decorating schemes are taught. Restricted to Community Colleges campuses only. **Prerequisite(s):** CHEF 125.

CHEF 127. Chocolate Work

1 Credit (2P)

Introduction to working with chocolate utilizing a variety of methods. Tempering, forming, molding, and other professional techniques will be taught. Restricted to Community Colleges campuses only.

Prerequisite(s): Consent of Instructor.

CHEF 128. Advanced Chocolate Work

1 Credit (2P)

More advanced treatments of chocolate are explored and professional techniques for the chocolatier are developed. Restricted to Community Colleges campuses only.

Prerequisite(s): CHEF 127.

CHEF 129. Wedding Cake Design and Construction 1 Credit (2P)

Basic skills in designing wedding (or other specialty event) cakes. Includes shaping, icing selection, decorating scheme, presentation, transportation, and remote set up. Restricted to Community Colleges campuses only.

Prerequisite(s): CHEF 125 and CHEF 126.

CHEF 155. Special Topics

1-3 Credits (1-3)

Specific subjects to be announced in the Schedule of Classes. May be repeated up to 6 credits. Restricted to Community Colleges campuses only

CHEF 165. Math for Kitchen Operations

3 Credits (3)

Fundamental mathematical concepts and computations, including measurement, recipe scaling and conversions, metric unit conversion, ingredient yield calculations, ratios and cost extensions are covered. Examples of basic mathematical calculations use kitchen and food service functions, as well as situations to demonstrate principles.

CHEF 211. Food Production Management I 3 Credits (2+2P)

Introduction to kitchen design, workflow, and commercial equipment. Techniques, methods, and application of basic food production principles. Practical experience in cooking processes from a managerial viewpoint. Crosslisted with: HOST 211. Restricted to Community Colleges only

CHEF 212. Food Production Management II 3 Credits (2+2P)

Selection and use of ingredients. Demonstration and application of classical and modern cooking and preparation techniques. Management techniques for kitchen personnel. Recipe design and analysis. Crosslisted with: HOST 212. Restricted to Community Colleges only.

Prerequisite(s): CHEF 211 or consent of instructor.

CHEF 213. Bakery Management I 3 Credits (2+2P)

Fundamentals of baking from a supervisory/management perspective. Exposure to commercial equipment and processes. Introduction to commercial alternatives to scratch-preparation methods. Crosslisted with: HOST 213. Restricted to Community Colleges only.

CHEF 214. Bakery Management II

3 Credits (2+2P)

Advanced techniques and management of bakery operations are explored. Students learn classical forms and techniques. Modern methods of preparing traditional pastry and baked goods are introduced. Crosslisted with: HOST218. Restricted to Community Colleges only. **Prerequisite(s):** CHEF 213 or consent of instructor.

CHEF 233. Culinary Arts Fundamentals I 4 Credits (1+9P)

Introduction to the basics of culinary arts, including ingredients recognition, cooking methods and techniques, knife usage, preparation of basic stocks, mother sauces, starches and vegetables. Students will participate in laboratory work designed to create an understanding of the professional role of the culinarian. Preparation and production of food products integral to service to guests is incorporated in the course. May be repeated up to 4 credits. Consent of Instructor required. Restricted to: CHEF, HOST, HSMG, HOCH majors. Restricted to Community Colleges campuses only.

CHEF 234. Culinary Arts Fundamentals II 4 Credits (1+9P)

Continuation of introductory course focusing on meat cookery, daughter sauces, cold food preparation, poultry and seafood. Safe use of equipment is emphasized while experiencing differing methods of preparation and cooking. Preparation and production of food products integral to service of guests is incorporated in this course. May be repeated up to 4 credits. Restricted to: HOST,HSMG,CHEF majors. Restricted to Community Colleges campuses only.

Prerequisite(s): CHEF 233 with a grade of 'C-' or better.

CHEF 235. Advanced Culinary Arts I 4 Credits (1+9P)

Exploration and experience in preparation techniques beyond the basic level. Nutritional components of food are discussed, as in the application of good nutrition practices in recipe design. Students are encouraged to use creative methods to expand the individual's culinary expressions. Prepares food products for service to guests in both bulk feeding and individual service settings. Plans, prepares, serves and critiques meals provided for students, faculty and staff. May be repeated up to 4 credits. Prerequisite(s)/Corequisite(s): CHEF 234 with a grade of 'C' or better if course has been previously taken. Restricted to: CHEF majors. Restricted to Community Colleges campuses only.

CHEF 236. Advanced Culinary Arts II 4 Credits (1+9P)

Advanced techniques and experimental use of food combinations to enhance the student's repertoire of skills and abilities. Utilizes knowledge to develop recipes for unique products. Plans, prepares, serves and critiques meals provided for students, faculty and staff. Restricted to: CHEF majors. Restricted to Community Colleges campuses only. **Prerequisite(s):** CHEF 235 with a grade of 'C' or better.

CHEF 237. Banquet/Catering Production 3 Credits (1+6P)

Planning and implementation of the culinary aspects of catered functions. Development of time schedules, work assignments and service plans for catered events and banquet functions. Production of food items in appropriate quantities for catered events. Costing and control functions are covered. May be repeated up to 6 credits. Restricted to: CHEF, HOST majors. Restricted to Community Colleges campuses only. **Prerequisite(s):** Grade of 'C' or above in CHEF 233.

CHEF 240. Baking Fundamentals I 4 Credits (1+9P)

Introduction to baking techniques, measurment and use of ingredients; equipment use and chemical reactions inherent in the baking process. Production of simple desserts and baked goods. Itroduction to working with bread doughs. Restricted to: HOST, CHEF majors. Restricted to Community Colleges campuses only.

Corequisite(s): CHEF 233.

CHEF 241. Baking Fundamentals II 4 Credits (1+9P)

More advanced baking and bread making techniques are covered in this course with emphasis on the more advanced elements of quantity production. Students work with a variety of products and ingredients. Restricted to: HOST, CHEF majors. Restricted to Community Colleges campuses only.

Prerequisite(s): grade of 'C' or above in CHEF 240.

CHEF 242. Intermediate Baking I

4 Credits (1+9P)

More advanced baking and pastry techniques are covered in this course with emphasis on the basic elements of patisserie production. Focus is on preparing students to work in a pastry kitchen. Restricted to: HOST, CHEF majors. Restricted to Community Colleges campuses only.

Prerequisite(s): Grade of 'C' or above in CHEF 241.

CHEF 243. Intermediate Baking II

4 Credits (1+9P)

Continuation of work with basic elements of patisserie products including laminated doughs and filled products. Students prepare creams, custards, fillings and are introduced to cake assembly procedures. Restricted to: CULI majors. Restricted to Community Colleges campuses only.

Prerequisite(s): Grade of 'C' or above in CHEF 242.

CHEF 255. Special Topics

3 Credits (3)

Specific subjects to be announced in the Schedule of Classes. May be repeated up to 6 credits. Restricted to: CULI, HOST, HSMG majors. Restricted to Community Colleges campuses only.

CHEF 256. International Cuisine

3 Credits (1+6P)

Exploration into a variety of international cuisines is undertaken, including the cultural and historical backgrounds of the foods being prepared. Students work on developing themed menus and production plans for meals utilizing a single international cuisine. May be repeated up to 6 credits. Restricted to: CHEF, HOST majors. Restricted to Community Colleges campuses only.

Prerequisite(s): Grade of 'C' or above in CHEF 233.

CHEF 257. Garde Manger

3 Credits (1+6P)

Traditional garde manger skills are taught, including plated salads, cold foods, entrements, pates, forcemeat, terrines, charcuterie and chaud froid work. The art and craft of food design, preparation and service are emphasized. May be repeated up to 3 credits. Restricted to: CHEF, HOST majors. Restricted to Community Colleges campuses only.

Prerequisite(s): Grade of 'C' or above in CHEF 233.

CHEF 260. Nutrition for Chefs

3 Credits (3)

Aspects of basic human nutritional requirements are covered as are the applications of the standards to the cooking and baking. Meeting the USDA nutrient guidelines while preparing good tasting food is discussed, calorie, fat and sodium reduction techniques are explored.

CHEM-CHEMISTRY (CHEM)

CHEM 1111. Basic Chemistry

3 Credits (3)

For students whose preparatory science or math training has been deficient. Does not meet the chemistry requirement in any curriculum. **Prerequisite:** Enhanced ACT composite score of at least 18 or a grade of C- or better in CCDM 114 N.

CHEM 1120G. Introduction to Chemistry Lecture and Laboratory (non majors)

4 Credits (3+3P)

This course covers qualitative and quantitative areas of non-organic general chemistry for non-science majors and some health professions. Students will learn and apply principles pertaining, but not limited to, atomic and molecular structure, the periodic table, acids and bases, mass relationships, and solutions. The laboratory component introduces students to techniques for obtaining and analyzing experimental observations pertaining to chemistry using diverse methods and equipment.

Prerequisite: CCDM 114N or A S 103 or MATH 1215 or higher.

CHEM 1121. General Supplemental Instruction I 1 Credit (1)

Collaborative workshop for students in General Chemistry I. Course does not count toward departmental degree requirements. May be repeated for a maximum of 2 credits.

Corequisite(s): CHEM 1215G.

CHEM 1122. General Supplemental Instruction II 1 Credit (1)

Collaborative workshop for students in General Chemistry II. Course does not count toward departmental degree requirements. May be repeated for a maximum of 2 credits.

Corequisite(s): CHEM 1225G.

CHEM 1123. Principles of Supplemental Instruction III 1 Credit (1)

Collaborative workshop for students in CHEM 1120G, Principles and Applications of Chemistry. Course does not count toward departmental degree requirements. May be repeated for maximum of 2 credits.

Corequisite(s): CHEM 1120G.

CHEM 1215G. General Chemistry I Lecture and Laboratory for STEM Majors

4 Credits (3+3P)

This course covers descriptive and theoretical chemistry. **Prerequisite:** (1) grade of C- or better in MATH 1215 or higher, or a Mathematics Placement Exam Score adequate to enroll in mathematics courses beyond MATH 1215.

CHEM 1216. General Chemistry I Lecture and Laboratory for CHEM Majors

4 Credits (3+3P)

As the first of a two-semester sequence, this course teaches fundamental concepts in chemistry, including the electronic structure of atoms, chemical periodicity, nature of chemical bonds, molecular structure, the three phases of matter, etc. Designed for majors in chemical and other physical sciences, including engineering. May be appropriate for the life science major. It is assumed that the students are familiar with college algebra, chemical nomenclature, stoichiometry, and scientific measurements. The laboratory component is designed to complement the theory and concepts presented in lecture, and will introduce students to techniques for obtaining and analyzing experimental observations pertaining to chemistry using diverse methods and equipment.

Prerequisite(s): Eligible to take MATH 1250G and an ACT composite score of 22 or higher.

CHEM 1225G. General Chemistry II Lecture and Laboratory for STEM Majors

4 Credits (3+3P)

This course is intended to serve as a continuation of general chemistry principles for students enrolled in science, engineering, and certain preprofessional programs. The course includes, but is not limited to a theoretical and quantitative coverage of solutions and their properties, kinetics, chemical equilibrium, acids and bases, entropy and free energy, electrochemistry, and nuclear chemistry. Additional topics may include (as time permits) organic, polymer, atmospheric, and biochemistry. The laboratory component is designed to complement the theory and concepts presented in lecture, and will introduce students to techniques for obtaining and analyzing experimental observations pertaining to chemistry using diverse methods and equipment.

Prerequisite(s): C- or better in CHEM 1215G.

CHEM 1226. General Chemistry II Lecture and Laboratory for CHEM Majors

4 Credits (3+3P)

As the second of a two-semester sequence, this course teaches fundamental concepts in chemistry, including solutions, equilibria, electrochemistry, thermodynamics and kinetics. Designed for majors in chemical and other physical sciences, including engineering. May be appropriate for the life science major. It is assumed that the students are familiar with college algebra, chemical nomenclature, stoichiometry, and scientific measurements. The laboratory component is designed to complement the theory and concepts presented in lecture, and will introduce students to techniques for obtaining and analyzing experimental observations pertaining to chemistry using diverse methods and equipment.

Prerequisite(s): C- or better in CHEM 1216.

CHEM 2111. Explorations in Chemistry

1 Credit (1)

The major intent of this course is to deepen your interest in chemistry and make you aware of research and career opportunities in the field. During this semester we hope to discuss both old and new developments in chemistry that impact our lives. We also want to build our communication skills that are so necessary in our profession. Graded S/U.

CHEM 2115. Survey of Organic Chemistry and Laboratory 4 Credits (3+3P)

This course is a one -semester survey of organic and biological chemicals. Students will be introduced to nomenclature, molecular structure, properties, and reactions of hydrocarbons, alcohols, carbonyls, organic acids and bases, carbohydrates, lipids, and proteins. The handling of organic chemicals, simple organic reactions, tests for functional groups, and synthesis will be learned in the laboratory component of this course. May be repeated up to 4 credits.

Prerequisite(s): CHEM 1225G.

CHEM 2120. Integrated Organic Chemistry and Biochemistry 3 Credits (3)

This course is a one- semester introduction to Organic Chemistry and Biochemistry designed for students in health and environmental occupations. The course surveys organic compounds in terms of structure, physical, and chemical properties, followed by coverage of the chemistry of specific classes of organic compounds in the biological environment. Students will apply course concepts to everyday organic and biological chemistry problems in preparation for careers in health and environmental fields.

Prerequisite: CHEM 1120G or CHEM 1215G.

CHEM 2226. General Chemistry III

3 Credits (2+3P)

Quantitative aspects of general chemistry: solid state structure, equilibrium, thermodynamics, and kinetics. Required of chemical science majors who have taken CHEM 1215G/1225G.

Prerequisite: CHEM 1225G.

CHEM 2991. Introduction to Research

1-3 Credits (3+9P)

Techniques and procedures of chemical research. May be repeated for a maximum of 3 credits.

Prerequisites: 8 credits of chemistry and a 3.0 GPA in chemistry.

CHEM 2996. Special Topics in Chemistry

1-6 Credits (1-6)

Specific subjects in Chemistry. These subjects will be announced in the 'Schedule of Classes'. It may be repeated under different topics for a maximum of 12 credits.

CHIN-CHINESE (CHIN)

CHIN 1110. Mandarin Chinese I

4 Credits (4)

This is the first semester of a two-semester sequence in first year modern standard Chinese ("Mandarin"). This course is recommended for students who have had little or no experience in the Chinese language. A beginning Mandarin Chinese course is designed to introduce the Mandarin sound system ("pinyin"), basic vocabulary, Chinese characters (either in Simplified or Traditional characters), and basic grammatical concepts and structures. In order to help beginners develop their communicative competence in the four basic skills, the 5Cs (Communication, Cultures, Comparisons, Connections, and Communities) will be integrated consistently into the content and exercises in the course.

CHIN 1120. Mandarin Chinese II 4 Credits (4)

This is the second semester of a two-semester sequence in first year modern standard Chinese ("Mandarin"). This course is designed for students who have taken 1st Semester Mandarin Chinese, and focuses on enhancing pronunciation and expanding the vocabulary and grammar dealing with daily activities. In order to help beginners develop their communicative competence in the four basic skills, the 5Cs (Communication, Cultures, Comparisons, Connections, and Communities) will be integrated consistently into the content and exercises in the course.

Prerequisite(s): C or better in CHIN 1110.

CHIN 2110. Mandarin Chinese III

3 Credits (3)

This is the first semester of a two-semester sequence in second year modern standard Chinese ("Mandarin"). This course is designed for students who have taken 1st and 2nd Semester Mandarin Chinese (or equivalence), and have a basic foundation on Chinese phonetics, characters, and grammars. In order to help students develop their communicative competence in the four basic skills, the 5Cs (Communication, Cultures, Comparisons, Connections, and Communities) will be integrated consistently into the content and exercises in the course. Restricted to Las Cruces campus only.

Prerequisite(s): C or better in CHIN 1120.

CHIN 2120. Mandarin Chinese IV

3 Credits (3)

This is the second semester of a two-semester sequence in second year modern standard Chinese ("Mandarin"). This course is designed for students who have taken 1st, 2nd, and 3rd Semester Mandarin Chinese (or equivalence), and have a good foundation on Chinese phonetics, characters, and grammars. In order to help students develop their communicative competence in the four basic skills, the 5Cs (Communication, Cultures, Comparisons, Connections, and Communities) will be integrated consistently into the content and exercises in the course. Restricted to Las Cruces campus only.

Prerequisite(s): C or better in CHIN 2110.

CHME-CHEMICAL & MATERIALS ENGR (CHME)

CHME 101. Introduction to Chemical Engineering Calculations 2 Credits (2)

Introduction to the discipline of chemical engineering, including: an overview of the curriculum; career opportunities; units and conversions; process variables; basic data treatments; and computing techniques including computer programming and use of spreadsheets.

Prerequisite(s)/Corequisite(s): MATH 1250G.

CHME 102. Material Balances

2 Credits (2)

Perform material balances in single- and multi-phase, reacting and nonreacting systems under isothermal conditions.

Prerequisite(s)/Corequisite(s): CHEM 1215G or CHEM 1265.

Prerequisite(s): MATH 1250G, CHME 101.

CHME 201. Energy Balances & Basic Thermodynamics 3 Credits (3)

Chemical Engineering energy balances; combined energy and material balances including those with chemical reaction, purge and recycle; thermochemistry; application to unit operations. Introduction to the first and second laws of thermodynamics and their applications. May be repeated up to 3 credits.

Prerequisite(s): CHME 102, CHEM 1216 or CHEM 1215G, and MATH 1521G or MATH 1521H.

CHME 294. Communicating in Chemical Engineering 2 Credits (2)

Students will master the fundamentals of communicating as an engineer, with focus on both written and oral communication, both independently and collaboratively, including development of the skills of gathering information and making decisions.

Corequisite(s): ENGL 1110G, COMM 1115G.

CHSS - COMM HEALTH/SOC SRVCS (CHSS)

CHSS 1110. Intro to Health & Community Services 3 Credits (3)

This course offers a holistic and multidisciplinary approach towards health promotion, wellness and a healthy lifestyle. Emphasis is placed on the major problems/issues that have the greatest significance to personal and community health. Topics to be discussed include:nutrition, fitness, stress management, sexuality, drug education and others.

CHSS 2110. Ethical & Research Issues in Human & Comm Service 3 Credits (3)

Ethical and legal responsibilities of health personnel with an emphasis on research applications. May not receive credit for both CHSS 2110 and CHSS 316. Community Colleges only.

CHSS 2510. Service Learning

1-4 Credits (1-4)

Service Learning Experience in Human and Community Service: Exploration of contemporary social, civil, economic and ethical problems that require student participation in collaborative efforts within the community

Prerequisite(s)/Corequisite(s): PHLS 1110G, CHSS 1110, and PHLS 2120. Prerequisite(s): PHLS 2110. Restricted to Community Colleges campuses only.

CHSS 2511. Leadership/Mentorship Training for the CHSS Ambassadors **Program**

1 Credit (1)

Leadership development for volunteers serving as CHSS ambassadors. Focus on public relations and CHSS undergraduate degree programs. Graded S/U.

Prerequisite: consent of instructor.

CJUS-CRIMINAL JUSTICE

CJUS 1110G. Introduction to Criminal Justice

3 Credits (3)

This course provides an overall exploration of the historical development and structure of the United States criminal justice system, with emphasis on how the varied components of the justice system intertwine to protect and preserve individual rights. The course covers critical analysis of criminal justice processes and the ethical, legal, and political factors affecting the exercise of discretion by criminal justice professionals.

CJUS 1120. Criminal Law

3 Credits (3)

This course covers basic principles of substantive criminal law including elements of crimes against persons, property, public order, public morality, defenses to crimes, and parties to crime. May be repeated up to 3 credits.

CJUS 1996. Special Topics in Criminal Justice

1-3 Credits

Specific subjects to be announced in the Schedule of Classes. May be repeated under different topics for a maximum of 6 credits.

CJUS 2120. Criminal Courts and Procedure 3 Credits (3)

This course covers the structures and functions of American trial and appellate courts, including the roles of attorneys, judges, and other court personnel, the formal and informal process of applying constitutional law, rules of evidence, case law and an understanding of the logic used by the courts.

CJUS 2140. Criminal Investigations

3 Credits (3)

This course introduces criminal investigations with in the various local, state, and federal law enforcement agencies. Emphasis is given to the theory, techniques, aids, technology, collection, and preservation procedures which insure the evidentiary integrity. Courtroom evidentiary procedures and techniques will be introduced. Community Colleges only. (Note: students completing CJUS 2140 may not take CJUS 321.)

CJUS 2150. Corrections System

3 Credits (3)

This course introduces the corrections system in the United States, including the processing of an offender in the system and the responsibilities and duties of correctional professionals. The course covers the historical development, theory, and practice, as well as the institutional and community-based alternatives available in the corrections process.

CJUS 2160. Field Experience in Criminal Justice 3-6 Credits

This course is designed to provide actual experience working for a criminal justice agency and the opportunity to apply criminal justice concepts and theory to a field situation. Students already working in an agency will complete an approved learning project while on the job. Prerequisites: CJUS 1110G, prior arrangement and consent of instructor and a GPA of 2.0 or better in major.

CJUS 2220. The American Law Enforcement System 3 Credits (3)

This course covers the historical and philosophical foundations of law and order, with an in-depth examination of the various local, state, ad federal law enforcement agencies and how they interact within the criminal justice system.

COMM-COMMUNICATION (COMM)

COMM 1115G. Introduction to Communication

3 Credits (3)

This survey course introduces the principles of communication in the areas of interpersonal, intercultural, small group, organizational, public speaking, and mass and social media.

COMM 1130G. Public Speaking

3 Credits (3)

This course introduces the theory and fundamental principles of public speaking, emphasizing audience analysis, reasoning, the use of evidence, and effective delivery. Students will study principles of communication theory and rhetoric and apply them in the analysis, preparation and presentation of speeches, including informative, persuasive, and impromptu speeches.

COMM 2110. Communication Theory

3 Credits (3)

This course provides an exploration of major theories, concepts and methods of research in the study of human communication.

COMM 2111. Introduction to the Communication Major 1 Credit (1)

This is a one-credit course for new Communication Studies majors. It helps them get acquainted with the department, the department head (professor for this course, the professors, other students, and the department student organizations. It also deals with degree mapping and career mapping and any problems the students are having in their first year. Finally, the students learn about the the Communication Studies discipline and various communication careers they can pursue with their degree. The class meets one day each week for one hour. Restricted to: Communication Studies majors. Restricted to Las Cruces campus only.

COMM 2996. Special Topics

1-3 Credits

Specific subjects and credits to be announced in the Schedule of Classes. May be repeated for a maximum of 12 credits.

COMM 2997. Independent Study

1-3 Credits

Individualized, self-paced projects for students with a special interest in communication topics. May be repeated for a maximum of 6 credits. Prerequisites: COMM 1115G and sophomore standing.

CSEC - CYBERSECURITY (CSEC)

CSEC 110. Principles of Cybersecurity

3 Credits (3)

Course covers contemporary trends in cybersecurity including understanding characteristics of security vulnerabilities as they relate to hardware, software, data, procedures, and user actions. Restricted to Community Colleges campuses

CSEC 275. Introductory to Cryptography

3 Credits (3)

Introduction to the foundation of cryptography, principles behind cryptographic design, and cryptographic applications. Topics include encryption techniques, common cryptographic protocols and security functions.

Prerequisite(s)/Corequisite(s): MATH 1215 or above. Restricted to Las Cruces campus only.

CSEC 280. Introduction to Cyber Defense

3 Credits (3)

Introduction to the foundation of cryptography, principles behind cryptographic design, and cryptographic applications. Topics include encryption techniques, common cryptographic protocols and security functions.

Prerequisite(s)/Corequisite(s): MATH 1215. Restricted to Las Cruces campus only.

CSEC 285. Introduction to Managing Information Security 3 Credits (3)

Managerial aspects of information security and assurance including access control models, information security governance, accountability metrics, legal responsibilities, and information security program assessment.

Prerequisite(s)/Corequisite(s): CTEC 290 or OECS 269. Restricted to Las Cruces campus only.

CTEC - CYBER TECHNOLOGY

CTEC 105. Introduction to Information Technology 3 Credits (3)

Examination of information systems and their impact on commerce, education, and personal activities. Utilization of productivity tools for communication, data analysis, information management, and decision-making. Restricted to Community Colleges campuses only.

CTEC 110. Software Applications for Technicians 1-3 Credits (1-3)

Introduction to software applications for communication, information management, and data analysis. Students will utilize presentation, word processing, spreadsheet, database, and utility software to simulate real-world activities experienced by help desk technicians. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

CTEC 115. TOPICS IN IT

1-3 Credits (1-3)

Topics to be announced in the Schedule of Classes. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

CTEC 120. IT Infrastructure Support I

1-3 Credits (1-3)

Introduction to most common types of PC configurations, installations, and failures. This course will explore troubleshooting skills for maintaining and repairing common hardware and software related problems. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

CTEC 122. IT Infrastructure Support II

1-3 Credits (1-3)

Continuation of CTEC 120. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): CTEC 120 or OECS 185.

CTEC 127. Introduction to Internet of Things

1-3 Credits (1-3)

Exploration of the importance of IoT in society, components of typical IoT devices and future trends. IoT design considerations, constraints, interfacing and key components of networking will also be covered. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

CTEC 130. Linux Workstation

1-3 Credits (1-3)

Installation, configuration, and maintenance of the Linux operating system. Covers file organization, user management, and system security. Addresses general procedures for working with and modifying the operating system. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

CTEC 135. Windows Workstation

1-3 Credits (1-3)

Installation, configuration, and maintenance of the Windows operating system. Covers file organization, user management, and system security. Addresses general procedures for working with and modifying the operating system. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

CTEC 140. Introduction to Database Design

1-3 Credits (1-3)

Introduction to basic relational database concepts including terminology, tables, queries, forms, and reports. The course teaches data modeling concepts, building Entity Relationship Diagrams (ERDs), mapping ERDs, and use of data management system applications. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

CTEC 145. Introduction to Database Management 1-3 Credits (1-3)

Use of SQL to analyze complex business scenarios as well as to design and create, and manage databases. Course includes exposure to Application Express (APEX) to provide practical, hands-on activities. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): CTEC 140 or OECS 220.

CTEC 150. Mobile Application Programming

1-3 Credits (1-3)

Introduction to elements of mobile application coding including concepts, design strategies, and tools needed to create, test, and deploy applications for mobile devices. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

CTEC 152. JAVA Programming

1-3 Credits (1-3)

Introduction to concepts of programming in the Java language. Topics include data types, control structures, functions, arrays, files, and the mechanics of running, testing, and debugging code. This is a handson course that does not require students to have prior programming experience. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

CTEC 154. C++ Programming

1-3 Credits (1-3)

Introduction to concepts of programming in the C++ language. Topics include data types, control structures, functions, arrays, files, and the mechanics of running, testing, and debugging code. This is a handson course that does not require students to have prior programming experience. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

CTEC 156. Python Programming

1-3 Credits (1-3)

Introduction to concepts of programming in the Python language. Topics include data types, control structures, functions, arrays, files, and the mechanics of running, testing, and debugging code. This is a handson course that does not require students to have prior programming experience. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

CTEC 158. Visual Basic Programming 1-3 Credits (1-3)

Introduction to concepts of programming in the Visual Basic language. Topics include data types, control structures, functions, arrays, files, and the mechanics of running, testing, and debugging code. This is a handson course that does not require students to have prior programming experience. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

CTEC 180. Introduction to Networking 3-4 Credits (3-4)

This course introduces the architecture, structure, functions, components, and models of the Internet and computer networks. Course includes the principles and structure of IP addressing and the fundamentals of Ethernet concepts, media, and operations to build simple LANs, perform basic configurations for routers and switches. May be repeated up to 8 credits. Restricted to Las Cruces campus only.

CTEC 185. Routing and Switching Essentials 3-4 Credits (3-4)

This course covers the architecture, components, and operations of routers and switches in a small network. Students learn how to configure routers and switches for basic functionality. Course demonstrates how to configure and troubleshoot routers and switches to resolve common issues with RIPv1, RIPng, single area and multi-area OSPF, virtual LANs, and inter-VLAN routing in both IPv4 and IPv6 networks. May be repeated up to 8 credits.

Prerequisite(s)/Corequisite(s): CTEC 180 or OECS 261. Restricted to Las Cruces campus only.

CTEC 220. Internship

1-3 Credits (1-3)

Work experience, directly related to a student's field of study, that provides an opportunity to explore career options while experiencing hands-on application, knowledge, and theory learned in the classroom. May be repeated up to 6 credits. Consent of Instructor required. Graded: S/U Grading (S/U, Audit). Restricted to Las Cruces campus only.

Prerequisite(s): (CTEC 120 or OECS 185) AND (CTEC 130 or OECS 204), AND (CTEC 180 or OECS 261).

CTEC 230. Introduction to Linux Server Administration 1-3 Credits (1-3)

This course addresses the implementation and support needs of IT professionals that are planning to deploy and support Linux Server(s). It provides in-depth, hands-on training for IT professionals responsible for the planning, implementation, management, and support of Linux Server operating system(s). May be repeated up to 6 credits.

Prerequisite(s)/Corequisite(s): CTEC 130 or OECS 204. Restricted to Community Colleges campuses only.

CTEC 235. Introduction to Windows Server Administration 3 Credits (3)

This course addresses the implementation and support needs of IT professionals that are planning to deploy and support Window Server(s). It provides in-depth, hands-on training for IT professionals responsible for the planning, implementation, management, and support of Windows Server operating system(s).

Prerequisite(s)/Corequisite(s): CTEC 135 or OECS 207. Restricted to Las Cruces campus only.

CTEC 240. Fundamentals of Database Management 3 Credits (3)

Exploration of database management using SQL and PL/SQL to extend and automate SQL in administering database systems. Students will create and work with projects which challenge them to enhance the SQL of a database solution for a business or organization. May be repeated up to 6 credits. Restricted to Las Cruces campus only.

Prerequisite(s): CTEC 145.

CTEC 245. Fundamentals of Cloud Based Data Systems 1-3 Credits (1-3)

Introduction to the techniques and tools required to develop database driven web applications. The course teaches students how to design, develop, and deploy efficient and responsive, database-driven web applications using Oracle Application Express. May be repeated up to 6 credits.

Prerequisite(s)/Corequisite(s): CTEC 240. Restricted to Community Colleges campuses only.

CTEC 255. Special Topics

1-3 Credits (1-3)

Topics to be announced in the Schedule of Classes. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

CTEC 280. Scaling Networks

3-4 Credits (3-4)

This course covers the architecture, components, and operations of routers and switches in WLANs and complex networks. Students learn how to configure routers and switches for advanced functionality and to resolve common issues with OSPF, EIGRP, and STP in both IPv4 and IPv6 networks. May be repeated up to 8 credits.

Prerequisite(s)/Corequisite(s): CTEC 185 or OECS 262. Restricted to Las Cruces campus only.

CTEC 285. Connecting Networks

3-4 Credits (3-4)

This course covers WAN technologies and network services required by converged applications in a complex network. Students learn about selection criteria of network devices, VLANs and WAN technologies to meet network requirements to resolve common issues with data link protocols. May be repeated up to 8 credits.

Prerequisite(s)/Corequisite(s): CTEC 280 or OECS 263. Restricted to Las Cruces campus only.

CTEC 290. Network Security

3-4 Credits (3-4)

Fundamentals of design and implementation of network security solutions that will reduce the risk of system vulnerability. Topics include: threats, attacks, vulnerabilities, tools, architecture, design, access management, risk management, and cryptography. May be repeated up to 8 credits.

Prerequisite(s)/Corequisite(s): (CTEC 120 or OECS 185), AND (CTEC 180 or OECS 261). Restricted to Las Cruces campus only.

CTEC 299. Independent Study

1-4 Credits (1-4)

Specific subject to be determined based upon student need. May be repeated up to 8 credits. Restricted to Community Colleges campuses only.

CTFM-CLTHNG/TXTLS/FSHN MRCHDSG (CTFM)

CTFM 1110. Fundamentals of Fashion

3 Credits (3)

Survey of the fashion business from fiber to end product.

CTFM 2120. Fashion Illustration

3 Credits (1+4P)

This course explores aspects of fashion illustration, from drawing basic fashion figures to producing finished professional illustrations in color. This course provides the opportunity for students to integrate their fashion design development with computer-aided systems. The emphasis is on fashion innovation and concept design exploration enhanced by computer applications. May be repeated up to 3 credits.. Prerequisites: ARTS 1145G and CTFM 1110

CTFM 2130. Concepts in Apparel Construction

3 Credits (1+4P)

Students are introduced to professional standard sewing techniques and apparel construction. The techniques learned are applied to produce finished garments. Restricted to: FCSE,CTFM majors. Restricted to Las Cruces campus only.

CTFM 2990. Fashion Practicum

1-3 Credits (1-3)

Applied field experience in the related areas of apparel design, fashion merchandising, and textile science. May be repeated up to 3 credits. Restricted to: CTFM majors. Restricted to Las Cruces campus only.

DANC-DANCE (DANC)

DANC 1110G. Dance Appreciation

3 Credits (3)

This course introduces the student to the diverse elements that make up the world of dance, including a broad historic overview,roles of the dancer, choreographer and audience, and the evolution of the major genres. Students will learn the fundamentals of dance technique, dance history, and a variety of dance aesthetics. Restricted to: Main campus only.

DANC 1130. Ballet I

1 Credit (1)

This course is the beginning level of ballet technique. Students learn the basic fundamentally and performance skills of ballet techniques, which may include flexibility, strength, body alignment, coordination, range of motion, vocabulary, and musicality. May be repeated for a maximum of 2 credits.

DANC 1131. Introduction to Ballroom Dance

1 Credit (1)

Introduction to ballroom dance for non dance majors. Students will learn basic ballroom technique and partnering work. May be repeated up to 2 credits. Restricted to Las Cruces campus only.

DANC 1135. Introduction to Argentine Tango 1 Credit (1)

Introduction to skills and techniques of Argentine Tango.

DANC 1140. Flamenco I

1 Credit (1)

This course introduces the student to the art of flamenco and its cultural features and significance. Students will learn the fundamentals of this art form and introductory techniques and skills, which may include handwork, footwork, postures, and specific dances. May be repeated for a maximum of 2 credits.

DANC 1150. Modern Dance I

1 Credit (1)

Modern Dance techniques and styles. Students are introduced to proper warm-up techniques, body alignment, control and flexibility. Students work with various rhythms and combinations of movements. The course emphasizes dance technique and creative experience. The history, terminology and philosophy of Modern Dance are also discussed. May be repeated for a maximum of 2 credits.

DANC 1155. Introduction to Hip-Hop Dance

1 Credit (1)

This course provides an atmosphere of safety and encouragement in which students can express creativity and individuality through hip-hop dance. No previous dance experience required. May be repeated up to 4 credits. Restricted to Las Cruces campus only.

DANC 1185. Beginning Country Western Dance

1 Credit (1)

Beginning County Western dance, including Country Western two-step, nightclub two-step, polka, and Country Western line dance. May be repeated up to 2 credits. Restricted to Las Cruces campus only.

DANC 1220. Introduction Latin Social Dance 1 Credit (1)

Introduction to Latin social dance for non dance majors. Students will learn basic Latin dance technique and partnering work. May be repeated up to 2 credits. Restricted to Las Cruces campus only.

DANC 1235. Intro to West Coast Sw

1 Credit (1)

Students will learn to dance the smooth style of Swing. The West Coast Swing may be danced to ANY style of music that has a beat (Country, R&B, Hip Hop, Disco, House). Also featured is the Hustle (fast paced and exhilarating). May be repeated up to 4 credits. Restricted to Las Cruces campus only.

DANC 1460. Dance for Musical Theater I

1 Credit (1)

This course provides students with an understanding of the Tap and Jazz Dance technique for use in Musical Theater and other performance genres at the beginning level. This course is designed for students to gain knowledge and understanding of Tap and Jazz Dance as art forms. May be repeated up to 2 credits.

DANC 2114. Dance Sport I

1 Credit (1)

Performance-based, team formation dance in a variety of Latin and ballroom dances. May be repeated up to 4 credits. Consent of Instructor required. Restricted to Las Cruces campus only.

DANC 2130. Ballet II

2 Credits (2)

Intermediate level of ballet technique; Introduction of more advanced Ballet vocabulary at barre/center work; increase flexibility, strength, body alignment, and coordination for practice of steps/combinations with variations in timing and changes of facing. Restricted to Las Cruces campus only. May be repeated up to 4 credits.

DANC 2130L. Ballet Technique II Lab

1 Credit (1)

This course is designed for the acquisition of intermediate level ballet technique and skill development. May be repeated up to 2 credits. Consent of Instructor required. Restricted to Las Cruces campus only.

DANC 2140. Flamenco II

2 Credits (2)

The structure of flamenco through choreographies that represent the basic flamenco dance forms: Fandangos de Huelva, Alegrias, Solea par Bulerias, and Tientos/Tangos. The course will also cover intermediate flamenco technique including footwork, palm as (hand claps), braceo (movement of the arms), and floreo (movement of the hands) May be repeated up to 8 credits. Restricted to Las Cruces campus only.

Prerequisite(s): DANC 1140.

DANC 2140L. Flamenco Dance II Lab

1 Credit (1)

This course is designed for the acquisition of intermediate level Flamenco dance technique and skill development. May be repeated up to 2 credits. Consent of Instructor required. Restricted to Las Cruces campus only.

Prerequisite(s): DANC 1140 or instructor permission.

DANC 2142. Classical Spanish II

2 Credits (1+3P)

The study of theory, techniques, and practice of Classical Spanish at the intermediate level. Includes historical and cultural contexts of this art form. May be repeated up to 8 credits. Consent of Instructor required. Restricted to Las Cruces campus only.

Prerequisite(s): DANC 1140.

DANC 2142L. Spanish Dance II Lab

1 Credit (1P)

This course is designed for the acquisition of intermediate level Spanish dance technique and skill development. May be repeated up to 2 credits. Restricted to Las Cruces campus only.

DANC 2150. Modern Dance II

2 Credits (2)

Modern II is designed to further the student's abilities in modern dance technique, to enhance efficient use of weight and momentum, to release held patterns in the body's mechanics, to enrich spatial awareness, and to begin work on performance techniques. May be repeated up to 4 credits.

DANC 2150L. Modern Dance Technique II Lab

This course is designed for the acquisition of intermediate level modern dance technique and skill development. May be repeated up to 2 credits. Consent of Instructor required. Restricted to Las Cruces campus only.

DANC 2155. Hip Hop Dance Ensemble I

1 Credit (1)

Performance-based instruction for students pursuing a career in hip hop dance. Instruction includes dance repertory and choreography for stage, commercial/industry, and competitive dance areas. May be repeated up to 4 credits. Consent of Instructor required.

DANC 2157. Intermediate Hip-Hop Dance 2 Credits (2)

This course is for students who have experience in Hip-Hop dance. The movement material will cover West coast and Southern styles with the inclusion of the history and evolution of Hip-Hop dance. May be repeated up to 8 credits. Restricted to Las Cruces campus only.

DANC 2161. Tap Dance II

1 Credit (1)

Continued study of skills and techniques of tap dance at the advanced level. May be repeated for a maximum of 2 credits.

Prerequisite: DANC 1161 or consent of instructor.

DANC 2250. Contemporary Dance Ensemble I

1 Credit (1)

Performance-based instruction for students pursuing a career in contemporary dance. Instruction includes contemporary dance repertory and choreography for stage, outdoor arenas, and site-specific areas. May be repeated up to 4 credits. Consent of Instructor required. Restricted to Las Cruces campus only.

DANC 2251. Spanish Dance Ensembles I

1 Credit (1)

Performance-based instruction for students pursuing a career in dance with an emphasis in Spanish Dance. Instruction includes dance repertory and choreography for stage, outdoor arenas, and site-specific areas. May be repeated up to 4 credits. Consent of Instructor required. Restricted to Las Cruces campus only.

DANC 2265. Principles of Choreography I

3 Credits (3)

Solo dance choreography technique. The course must be passed with a grade of C or higher. Offered the Fall of even years only. Consent of Instructor required.

DANC 2270. Improvisation I

2 Credits (2)

Development of movement improvisational skills with complex examination of improvisational structures. Restricted to Las Cruces campus only.

DANC 2310. Bronze American Rhythm

2 Credits (2)

Bronze level American Rhythm patterns, techniques, and partnering with emphasis on elements of dance. May be repeated up to 6 credits.

DANC 2311. Bronze American Smooth

2 Credits (2)

Bronze level American Smooth patterns, technique, and partnering with an emphasis on the elements of dance. May be repeated up to 4 credits.

DANC 2320. Bronze International Latin

2 Credits (2)

This is the style of Latin dance that is danced around the globe and is featured in the World DanceSport Championships. Students will learn the Bronze Level figures and techniques in four (4) International Style dances: Rumba, Cha Cha, Samba & Jive. May be repeated up to 8 credits. Restricted to Las Cruces campus only.

DANC 2321. Bronze International Standard

2 Credits (2)

This is the style of Ballroom dance that is performed around the globe and is featured in the World DanceSport Championships. Learn the Bronze Level figures and techniques in five (5) International Style dances: Waltz, Tango, Viennese Waltz, Foxtrot & Quickstep. Students will focus on understanding technical elements of dance, memorizing and performing routines. May be repeated up to 4 credits.

DANC 2460. Dance for Musical Theater II 2 Credits (2)

This course provides students with an understanding of the Tap and Jazz Dance technique for use in Musical Theater and other performance genres at the intermediate level. This course is designed for students to gain knowledge and understanding of Tap and Jazz Dance as art forms. May be repeated up to 4 credits. Consent of Instructor required. **Prerequisite(s):** DANC 1460 or consent of instructor.

DAS-DENTAL ASSISTING (DAS)

DAS 101. Introduction to Dental Assisting 2 Credits (2)

An introduction to the duties and responsibilities of a dental assistant. Includes brief lessons on head and neck anatomy, chair side assisting, sterilization techniques, dental office emergencies, and dental office management. Restricted to: Community Colleges only.

DAS 111. Bio-Dental Science

4 Credits (3+3P)

An introduction to biomedical and dental sciences with emphasis on head and neck anatomy and tooth morphology. Includes microbiology, general anatomy and physiology, histology and embryology of the oral cavity, pathology and pharmacology as they relate to dentistry.

Corequisite(s): DAS 113, DAS 115, and DAS 117.

Prerequisite(s)/Corequisite(s): PSYC 1110G, PHLS 1110G, and NUTR 2110. Prerequisite(s): ENGL 1110G, BIOL 1130, and (COMM 1130G or COMM 1115G). Restricted to: OEDA majors. Restricted to Alamogordo, Carlsbad and Dona Ana campuses.

DAS 113. Dental Assisting I

4 Credits (2+6P)

Introduction to chair side assisting procedures, instrumentation, infection control, equipment safety and maintenance, dental office emergencies, and management of pain and anxieties.

Corequisite(s): DAS 111, DAS 115, and DAS 117.

Prerequisite(s)/Corequisite(s): PSYC 1110G, PHLS 1110G, and NUTR 2110. Prerequisite(s): ENGL 1110G, BIOL 1130, and (COMM 1130G or COMM 1115G). Restricted to: OEDA majors. Restricted to Alamogordo, Carlsbad and Dona Ana campuses.

DAS 115. Dental Radiology

3 Credits (2+3P)

Radiation physics, hygiene, and safety theories. Emphasis on the fundamentals of oral radiographic techniques and interpretation of radiographs. Includes exposure of intra-oral radiographs, quality assurance, radiographic interpretation, patient selection criteria, and other ancillary radiographic techniques.

Corequisite(s): DAS 111, DAS 113, and DAS 117.

Prerequisite(s)/Corequisite(s): PSYC 1110G, PHLS 1110G, and NUTR 2110. Prerequisite(s): ENGL 1110G, BIOL 1130, and (COMM 1130G or COMM 1115G). Restricted to: OEDA majors. Restricted to Alamogordo, Carlsbad and Dona Ana campuses.

DAS 117. Dental Materials

3 Credits (2+3P)

Composition, chemical and physical properties, manipulation and uses of dental materials. Laboratory experiences include the application and manipulation of various materials used in dentistry.

Corequisite(s): DAS 111, DAS 113, and DAS 115.

Prerequisite(s)/Corequisite(s): PSYC 1110G, PHLS 1110G, and NUTR 2110. Prerequisite(s): ENGL 1110G, BIOL 1130, and (COMM 1130G or COMM 1115G). Restricted to: OEDA majors. Restricted to Alamogordo, Carlsbad and Dona Ana campuses.

DAS 123. Dental Assisting Practicum

6 Credits (1+15P)

This course is the clinical component of the program that combines general practice and experiences in the work place. Seminar topics focus on the practicum experiences and critique of performance. Restricted to Alamogordo, Carlsbad and Dona Ana campuses.

Prerequisite(s): DAS 111, DAS 113, DAS 115, and DAS 117.

Corequisite(s): DAS 125, DAS 127, and DAS 129.

DAS 125. Professional Concepts

3 Credits (3)

Emphasis on the development of professionalism for the dental office. Includes oral communication, psychology, patient relations, problemsolving skills, stress management, and employability in addition to dental jurisprudence and ethics. Restricted to Alamogordo, Carlsbad and Dona Ana campuses.

Prerequisite(s): DAS 111, DAS 113, DAS 115, and DAS 117.

Corequisite(s): DAS 123, DAS 127, and DAS 129.

DAS 127. Dental Office Management

2 Credits (2)

This capstone course is an introduction to business office procedures, including telephone management, appointment control, accounts payable, completion of third party reimbursement forms, inventory control data entry for charges and payments, management recall, basic dental computer software and operating basic business equipment. Restricted to: OEDA majors. Restricted to Alamogordo, Carlsbad and Dona Ana campuses.

Prerequisite(s): DAS 111, DAS 113, DAS 115, and DAS 117.

Corequisite(s): DAS 123, DAS 125, and DAS 129.

DAS 129. Preventive Dentistry

2 Credits (2)

Prevention of dental diseases, oral hygiene instruction, fluoride, community dental health, and nutrition. Development, implementation and evaluation of a community dental health project. Restricted to Alamogordo, Carlsbad and Dona Ana campuses.

Prerequisite(s): DAS 111, DAS 113, DAS 115, and DAS 117.

Corequisite(s): DAS 123, DAS 125, and DAS 127.

DAS 130. Dental Assisting II

4 Credits (2+6P)

Continuation of chair side assisting skills and techniques with a major emphasis on four-handed dentistry. This capstone course includes specialties within dentistry and expanded chair side functions. Restricted to Alamogordo, Carlsbad and Dona Ana campuses.

Prerequisite(s): DAS 111, DAS 113, DAS 115, DAS 117, DAS 123, DAS 125, DAS 127, and DAS 129.

DAS 131. Dental Office Management I

3 Credits (3)

Introduction to the field of dental office management with emphasis placed on professional verbal and written communication skills utilized within the dental office. Content includes dental terminology, charting, and back office experience as they relate to dental reception and management.

Prerequisite(s)/Corequisite(s): DAS 101, AHS 120, and AHS 202. Prerequisite(s): ENGL 1110G. Restricted to Alamogordo, Carlsbad and Dona Ana campuses.

DAS 133. Dental Office Management II

3 Credits (3)

Places emphasis on computer programs specifically designed for dental office management (Dentrix, Sof Dent, etc.) Expanded course content on oral communication and telephone skills, appointment scheduling, patient relations, stress management solutions, and comprehensive critical thinking/problem solving skills.

Prerequisite(s)/Corequisite(s): AHS 202. Prerequisite(s): ENGL 1110G, DAS 101, and AHS 120. Restricted to Alamogordo, Carlsbad and Dona Ana campuses.

DAS 155. Special Topics

1-6 Credits

Specific subjects to be announced in the Schedule of Classes. May be repeated for a maximum of 12 credits.

Prerequisite: consent of instructor.

DHYG - DENTAL HYGIENE/HYGIENIST (DHYG)

DHYG 110. Preclinical Dental Hygiene

3 Credits (3)

Basic scientific principles and current theory, prevention of disease transmission, ethical and professional treatment of patients, clinical learning preparation, and introduction to comprehensive patient care. Offered concurrently with DHYG 112 to provide dental hygiene students with introductory knowledge, skills and attitudes to function in the clinical setting. May be repeated up to 3 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

DHYG 112. Preclinical Dental Hygiene Lab 3 Credits (12P)

Clinical application to basic theories and procedures used in dental hygiene practice. Techniques of instrumentation used in performing diagnostic, preventive and therapeutic services utilized when providing comprehensive patient care. Student will practice these techniques on manikins and student partners in the clinic. May be repeated up to 3 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

DHYG 114. Oral Histology and Embryology 2 Credits (2)

Introduction and description of general histology and embryology with emphasis on the microscopic structures of enamel, dentin, pulp, cementum, periodontal ligament, bone, oral mucosa, epithelial attachment and development of orofacial structures. May be repeated up to 2 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

DHYG 116. Head and Neck Anatomy 3 Credits (3)

Comprehensive study of the anatomy of the head and neck regions, including skeletal, nervous, circulatory, lymphatic, and muscular systems. May be repeated up to 3 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

DHYG 117. Dental Anatomy

2 Credits (2+1P)

A detailed study of nomenclature, morphologic characteristics, and physiologic relationships of human primary and permanent teeth as related to the clinical practice of dental hygiene. Laboratory activities develop observation and dexterity skills. May be repeated up to 2 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

DHYG 118. Dental Radiology

3 Credits (3+4P)

Study of radiation physics, hygiene and safety theories. Fundamentals of oral radiographic techniques and interpretation of radiographs. Includes exposure of intra-oral radiographs, quality assurance, radiographic interpretation, patient selection criteria, ancillary radiographic techniques and application to dental hygiene treatment. May be repeated up to 3 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

DHYG 120. Dental Hygiene Theory I

3 Credits (3)

Continuation of the theoretical basis for dental hygiene clinical practice. Emphasis on emergency care, planning dental hygiene care, health promotion and disease prevention, oral rehabilitation and care of appliances, modifications of dental hygiene care through the life-span, and an introduction to medically comprised patients. May be repeated up to 3 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

DHYG 122. Clinical Dental Hygiene I 3 Credits (16P)

Application of dental hygiene procedures on a variety of clinical patients under direct supervision of faculty. Emphasis on patient assessment and diagnosis, treatment procedures, appointment planning and prevention techniques. Theory is simultaneously related to practical experience. Offered concurrently with DHYG 120. May be repeated up to 3 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

DHYG 124. General and Oral Pathology

3 Credits (3)

Introduction to general pathology with focused study of diseases and disorders of the oral cavity and their interrelationship with body systems; developmental anomalies of the teeth and jaws; manifestations of disease in the oral cavity, head and neck. May be repeated up to 3 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

DHYG 126. Periodontology

3 Credits (3)

Study of normal and diseased periodontium to include the structural, functional and environmental factors. Emphasis on etiology, pathology, evaluation of disease, treatment modalities, and therapeutic and preventative periodontics relative to the hygienist's role as a co-therapist in a contemporary practice setting. May be repeated up to 3 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

DHYG 132. Clinical Dental Hygiene II

2 Credits (2)

Continuation of clinical skills, patient assessment and diagnosis, treatment and appointment planning, preventive techniques and application of dental hygiene procedures at an intermediate level under the direct supervision of faculty. Clinical-based instruction helps students synthesize new knowledge, apply previous knowledge, and gain experience managing the workflow. Theory is simultaneously related to practical experience. May be repeated up to 2 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

Prerequisite(s): 'C' or above in DHYG 120, DHYG 122, DHYG 124, DHYG 126, DHYG 134.

Corequisite(s): DHYG 218.

DHYG 134. Dental Materials

3 Credits (2+2P)

Study of the composition, chemical and physical properties, manipulations, and uses of dental materials. Emphasis on materials and procedures for which the dental hygienist is directly responsible. Laboratory experiences include application and manipulation of various materials used in dentistry. May be repeated up to 3 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

DHYG 210. Dental Hygiene Theory III 2 Credits (2)

Advanced theory of dental hygiene and information on periodontal therapies relative to the hygienist's role as a co-therapist in clinical practice. Continuation of the study of dental hygiene care for medically comprised patients and an introduction to special needs patients. May be repeated up to 2 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

DHYG 212. Clinical Dental Hygiene III 4 Credits (16P)

Continuation of clinical skills, patient assessment and diagnosis, treatment and appointment planning, preventive techniques and applications of dental hygiene procedures at the intermediate to competent level under supervision of faculty. Emphasis on dental hygiene treatment for the medically compromised and periodontally involved patients. Theory is simultaneously related to practical experience. Offered concurrently with DHYG 210. May be repeated up to 4 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

DHYG 214. Dental Pharmacology

3 Credits (3)

Study of the pharmacologic aspects of drugs and drug groups with which the dentist and dental hygienist are directly and indirectly concerned. Emphasis is placed on nomenclature, origin, physical and chemical properties, preparation, modes of administration and effects of drugs upon the body systems. May be repeated up to 3 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

DHYG 215. Medical and Dental Emergencies 2 Credits (2)

This course provides an overview of medical and dental emergencies encountered most frequently in the dental setting. It also provides the student with knowledge and techniques on how to address those emergencies should they occur. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

DHYG 217. Research Methodology 2 Credits (2)

This course provides an introduction to the principles and application of research methods in social, behavioral and medical research. Restricted

to: DHYG majors. Restricted to Community Colleges campuses only.

DHYG 218. Pain and Anxiety Management 2 Credits (2)

Study of the application of various physical, chemical, and psychological modalities to the prevention and treatment of preoperative and postoperative patient anxiety and pain. Emphasis on administration of local anesthesia and nitrous oxide. May be repeated up to 2 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

DHYG 219. Pain and Anxiety Management Clinical 1 Credit (4P)

Clinical application of concepts learned in DHYG 218. Emphasis on the administration and techniques of local anesthesia and monitoring nitrous oxide. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

Prerequisite(s): DHYG 218.

DHYG 220. Dental Hygiene Theory IV 3 Credits (3)

Theoretical preparation for advanced clinical practice. In-depth study of dental hygiene care for patients with special needs. Case Study presentations and a Board Review are utilized to demonstrate the synthesis of comprehensive dental hygiene knowledge, skills and attitudes. The most current dental and dental hygiene technology will be reviewed as it related to clinical practice. May be repeated up to 3 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

DHYG 222. Clinical Dental Hygiene IV 4 Credits (16P)

Clinical sessions combine basic and advanced dental hygiene skills with time management techniques essential for private practice. Comprehensive patient care to include assessment, dental hygiene diagnosis, treatment planning, implementation and evaluation of dental care, nonsurgical periodontal therapy, adjunct clinical procedures, ultrasonic instrumentation, patient management, sealants, and comprehensive programs for control of oral diseases will be emphasized. Theory is simultaneously related to practical experience. Students are encouraged to develop independent decision-making with minimal faculty supervision. May be repeated up to 4 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

DHYG 224. Principles of Practice 2 Credits (2)

Examination of the dental hygienist's role in both traditional and non-traditional employment settings. Career planning, resume preparation and interviewing are practices. An understanding of the law, professional ethics of dental hygiene and the need for lifelong learning are emphasized. Future roles of the dental hygienist and emerging issues in dental hygiene will be explored. May be repeated up to 2 credits. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

DHYG 225. Dental Public Health Education 3 Credits (3)

Study of principles and concepts of community public health and dental health education. Emphasis on dental epidemiology and statistical methods, community assessment, educational planning, implementation, and evaluation, scientific review of literature, and classroom presentation. Restricted to: DHYG majors. Restricted to Community Colleges campuses only.

DHYG 255. Special Topics in Dental Hygiene 1-6 Credits (1-6)

Study of special topics related to the advanced practice of dental hygiene. May include educational methodology as well as applications in clinical practice, research, or community service. Consent of instructor required. Restricted to: Community Colleges only. Restricted to DHYG majors.

DMS-DIAGNOSTIC MED SONOGRAPHY (DMS)

DMS 100. Introduction to Clinical Practicum 1 Credit (1)

Introduction to working in the medical environment. Includes preparation for clinical internship and observation hours in the ultrasound department. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DMS 101. Introduction Sonography/Patient Care 2 Credits (2)

Introduction to the careers in sonography, terminology, medical ethics, scanning planes, applications of ultrasound, professional standards and patient care. May be repeated up to 2 credits. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DMS 116. Vascular Technology I

2 Credits (2)

Review of basic ultrasound physics and principles, peripheral vascular anatomy, hemodynamics, Doppler evaluation, peripheral vascular scanning techniques, physiologic testing and the carotid arteries and the peripheral vascular system. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DMS 116 L. Vascular Technology I Lab

1 Credit (2P)

Includes protocol development, scanning techniques, recognition of anatomical relationships and the normal ultrasound appearance of the carotid arteries and peripheral vasculature utilizing real-time sonographic equipment including Doppler. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DMS 130. Pelvic Sonography 1 Credit (1)

Includes the anatomy, sectional anatomy and normal physiology of the pelvic structures; including the uterus, ovaries, prostate, pelvic muscles, lower GI, appendix and vessels as well as scanning techniques, sonographic appearance and Doppler evaluation of the pelvis. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DMS 130 L. Pelvic Sonography Lab 1 Credit (2P)

Includes protocol development, scanning techniques, recognition of anatomical relationships and the normal ultrasound appearance of the pelvic structures including the uterus, ovaries, prostate, lower gastrointestinal system, appendix and pelvic muscles utilizing real-time sonographic equipment including Doppler. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DMS 140. Abdominal Sonography

3 Credits (3)

Includes the anatomy, sectional anatomy and normal physiology of prevertebral vessels, liver, biliary system, pancreas, upper gastrointestinal system, kidneys, adrenals, and spleen as well as scanning techniques, sonographic appearance and Doppler evaluation of the deep abdominal organs. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DMS 140 L. Abdominal Sonography Lab 1 Credit (4P)

Includes protocol development, scanning techniques, recognition of anatomical relationships and the normal ultrasound appearance of prevertebral vessels, liver, biliary system, pancreas, upper gastrointestinal system, kidneys and spleen utilizing real-time sonographic equipment including Doppler. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DMS 150. Sonographic Principles and Instrumentation I 1 Credit (1)

Includes the fundamental properties and mathematical relationships between variables of wave parameters, acoustic variables, attenuation, pulsed wave operation, transducers, system operation, Doppler, and artifacts utilizing real-time sonographic equipment. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DMS 160. 1st Trimester Obstetric Sonography 1 Credit (1)

Includes the embryology, anatomy, sectional anatomy, normal physiology, biometrics, assessment, and sonographic appearance of the 1st trimester fetus, placenta, uterus and adnexa as well as scanning techniques according to recognized protocols. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DMS 165. 2nd/3rd Trimester Obstetric Sonography 1 Credit (1)

Includes the anatomy, sectional anatomy, normal physiology, biometrics, assessment, and sonographic appearance of the 2nd and 3rd trimester fetus, placenta, uterus, and adnexa as well as scanning techniques according to recognized protocols. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DMS 170. Clinical Practicum I 2 Credits (8-10P)

Development of technical and professional aspects of diagnostic ultrasound in a hospital or clinical setting at the developmental level. Ongoing reinforcement and broadening of knowledge base related to hospital procedures and policies. Continued observation, assistance and performance of patient care and sonographic duties under direct supervision. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DMS 180. Clinical Practicum II 5 Credits (30P)

Development of technical and professional aspects of diagnostic ultrasound in a hospital or clinical setting at the beginner level. Ongoing reinforcement and broadening of knowledge base related to hospital procedures and policies. Continue observation, assistance and performance of patient care and sonographic duties under direct supervision. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DMS 201. Applied Sonographic Procedures 1 Credit (8P)

Advances scanning skills, system optimization, anatomic recognition of abdominal and pelvic structures utilizing real-time sonographic equipment including Doppler. Includes sonographic evaluation of the first trimester pregnancy and normal fetus. Restricted to: DMS majors. Restricted to Las Cruces campus only.

DMS 216. Vascular Technology II

2 Credits (2)

Includes the pathology and pathophysiology of the vascular system, scanning techniques, clinical presentation, ultrasound appearance and Doppler evaluation seen with pathological conditions of the carotid arteries, deep and peripheral vascular systems. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DMS 216 L. Vascular Technology II Lab 1 Credit (2P)

Includes progressive development of skills following recognized protocols, scanning techniques, recognition of anatomical relationships with differentiation of normal and abnormal ultrasound appearance of the carotid arteries, deep and peripheral vascular systems utilizing real-time sonographic equipment including Doppler. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DMS 226. Sonographic Case Studies I 1 Credit (1)

Includes integration of didactic knowledge, clinical presentation, laboratory values, sonographic appearance and related medical imaging of a variety of pathological conditions through a variety of case analysis and presentations. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DMS 227. Sonographic Case Studies II

1 Credit (1)

Continuation of DMS 226, integration of didactic knowledge, clinical presentation, laboratory values, sonographic appearance and related medical imaging of a variety of pathological conditions through a variety of case analysis and presentations. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DMS 230. Gynecologic Pathology

2 Credits (2)

Includes the pathology and pathophysiology of the female reproductive system, scanning techniques, clinical presentation, ultrasound appearance and Doppler evaluation seen with pathological conditions of the uterus, ovaries, and adnexa. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DMS 240. Abdominal Pathology I

2 Credits (2)

Includes the pathology and pathophysiology of abdominal structures of the prevertebral vessels, liver, biliary system, pancreas, spleen and gastrointestinal system; scanning techniques, ultrasound appearance, clinical presentation and Doppler evaluation seen with pathological conditions. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DMS 245. Abdominal Pathology II

2 Credits (2)

Includes the pathology and pathophysiology of abdominal structures of the genitourinary system, spleen, retroperitoneum, adrenal glands, abdominal wall and prostate; scanning techniques, ultrasound appearance, clinical presentation and Doppler evaluation seen with pathological conditions. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DMS 248. Pediatric Sonography 2 Credits (2)

Includes the anatomy of the brain, skull, spine, hips, and normal developmental changes as well as pathology and pathophysiology of specific conditions that affect the premature infant, newborn and pediatric population across a variety of body systems. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DMS 250. Sonographic Principles and Instrumentation II 3 Credits (3)

Includes properties of sound and its use in diagnostic imaging, artifacts, system operation, Doppler, basic hemodynamics, image optimization, bio effects, quality assurance, and new technologies in ultrasound imaging. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DMS 255. Vascular Physics

2 Credits (2)

Includes a review of sound properties and its use in diagnostic imaging, artifacts, system operation, Doppler, image optimization, bio effects, quality assurance, and in-depth application of fluid properties and hemodynamics in vascular ultrasound imaging. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DMS 260. High Risk Obstetric Sonography 3 Credits (3)

Includes congenital malformations of the developing fetus, high risk pregnancies, multiple gestation, maternal conditions and invasive procedures. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DMS 270. Clinical Practicum III

5 Credits (20P)

Continued development of technical and professional aspects of diagnostic ultrasound in a hospital or clinical setting at an intermediate level. Ongoing reinforcement and broadening of knowledge base related to hospital procedures and policies. Continued observation, assistance and performance of patient care and sonographic duties under limited supervision. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DMS 280. Clinical Practicum IV 5 Credits (20P)

Application of technical and professional aspects of diagnostic ultrasound in a hospital or clinical setting at a proficient level. Ongoing reinforcement and broadening of knowledge base related to hospital procedures and policies. Continued observation, assistance and performance of patient care and sonographic duties under limited supervision. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DMS 290. Small Parts & Superficial Structures 2 Credits (2)

Includes anatomy, pathology and pathophysiology, protocol development, scanning techniques, recognition of anatomical structures and the normal and pathological ultrasound appearance of the breast, thyroid, neck, scrotum, non-cardiac chest and musculoskeletal ultrasound. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DMS 291. Registry Preparation: OB/GYN 1 Credit (1)

Registry preparation mock examinations over materials covered in Obstetric and Gynecological ultrasound. Students must pass this course with a 74% or better OR pass national certification in OB/GYN Sonography. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DMS 292. Registry Preparation: Abdomen 1 Credit (1)

Registry preparation mock examinations over materials covered in abdominal ultrasound including small parts and superficial structures. Students must pass this course with a 74% or better OR pass ARDMS national certification exam in Abdominal Sonography. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DMS 293. Registry Preparation: Vascular 1 Credit (1)

Registry preparation mock examinations over materials covered in vascular ultrasound. Students must pass this course with a 74% or better OR pass national certification in Vascular Technology. Restricted to: DMS majors. Restricted to Community Colleges campuses only.

DRFT-DRAFTING (DRFT)

DRFT 100. Introduction to Architecture, Engineering, & Construction 3 Credits (3)

Introduction to and exploration of careers in the fields of architecture, engineering, and construction. Specific fields to include: architecture, civil engineering, mechanical engineering, structural engineering, engineering technology, residential construction, commercial construction, geographical information systems (GIS), surveying, sustainable design, and green building. Crosslisted with: ARCH 1310. Restricted to Community Colleges campuses

DRFT 101. Introduction to Drafting and Design Technologies 1 Credit (1)

Professional and student organizations associated with the Drafting and Design Technologies program, degree requirements, employment skills and work habits, and university and college policies and procedures will be explored. Students will be introduced to the current learning management system and career-readiness certification. Restricted to Community Colleges only.

DRFT 105. Technical Drawing for Industry 3 Credits (2+2P)

Technical sketching, basic CAD, and interpretation of drawings with visualization, speed and accuracy highly emphasized. Areas of focus include various trades such as machine parts, welding, heating and cooling, and general building sketches/plan interpretation.

DRFT 108. Drafting Concepts/Descriptive Geometry 2 Credits (1+2P)

Basic manual drafting skills, sketching, terminology and visualization. Graphical solutions utilizing applied concepts of space, planar, linear and point analyses. Metric and S.I. units introduced.

DRFT 109. Computer Drafting Fundamentals 3 Credits (2+2P)

Introduction to principles and fundamentals of drafting using both manual drawing techniques and computer-aided drafting (CAD) applications. May be repeated up to 3 credits. Crosslisted with: ET 109 and CE 109. Restricted to Community Colleges campuses only.

DRFT 112. Drafting Concepts/Computer Drafting Fundamentals I 4 Credits (2+4P)

Basic drafting skills, terminology, and visualization. Introduction to principles and fundamentals of computer-aided drafting. Same as E T 106.

Prerequisites: OECS 207, OECS 125 or consent of instructor.

DRFT 113. Drafting Concepts/Computer Drafting Fundamentals II 4 Credits (2+4P)

Drafting for mechanical/industrial applications; machine part detailing, assemblies in orthographic, isometric, auxiliary, oblique, and sectional views. Two-dimensional AutoCAD with introduction to 3-D AutoCAD. Same as E T 216. Restricted to: Community Colleges only.

Prerequisite: DRFT 112.

DRFT 114. Introduction to Solid Modeling 3 Credits (2+2P)

2D mechanical drafting and 3D mechanical solid modeling utilizing the latest version of AutoCAD software. Industry dimensioning and annotation standards will be emphasized. 2D multi-view working drawings, 3D solid models, and basic 3D model assemblies will be introduced. Restricted to Community Colleges campuses only. **Prerequisite(s):** DRFT 109.

DRFT 115. General Construction Safety 3 Credits (3)

Overview of general construction safety related to building, highway and road construction, and surveying field work for entry-level individuals. Students will also have the opportunity to earn a 10-hour construction industry OSHA card. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

DRFT 120. Survey Equipment Fundamentals 2 Credits (2)

Introduces the application and the setup to the following surveying equipment: Automatic Level, Total station, and Global Positioning Systems. Field safety knowledge is required. Restricted to Community Colleges only.

DRFT 124. Introduction to Geometric Dimensioning and Tolerancing 3 Credits (2+2P)

Introduction to geometric dimensioning and tolerancing (GD&T) for the mechanical CAD drafting, solid modeling, mechanical engineering technology, mechanical engineering, and manufacturing industries. Related industry standard finishes and fasteners will also be introduced and explored.

Prerequisite(s)/Corequisite(s): DRFT 114. Restricted to Community Colleges campuses only.

DRFT 130. General Building Codes

3 Credits (2+2P)

Interpretation of the Building Code, local zoning codes, A.D.A. Standards and the Model Energy Code to study construction and design requirements and perform basic plan checking. Restricted to: Community Colleges only.

DRFT 135. Electronics Drafting I 3 Credits (2+2P)

Drafting as it relates to device symbols; wiring, cabling, harness diagrams and assembly drawings; integrated circuits and printed circuit boards; schematic, flow and logic diagrams; industrial controls and electric power fields. Drawings produced using various CAD software packages.

Prerequisites: DRFT 108 and DRFT 109.

DRFT 143. Civil Drafting Fundamentals 3 Credits (2+2P)

Introduction to drafting in the field of Civil Engineering. Drawings, projects, and terminologies related to topographic, contour drawings, plan and profiles, and street/highway layout. Crosslisted with: E T 143. Restricted to Community Colleges only.

Prerequisite(s): DRFT 109.

DRFT 151. Construction Principles and Print Reading 3 Credits (2+2P)

Introduction to construction materials, methods, and basic cost estimating and print reading applicable in today's residential, commercial, and public works industry. Instruction by print reading and interpretation, field trips, and actual job-site visits and progress evaluation.

DRFT 153. Survey Drafting Applications 3 Credits (2+2P)

Introduction to drafting in the field of survey engineering. Drawings, projects and terminologies related to Point Data, topography, land/boundary surveys, legal descriptions and plat surveys. Using the current Autodesk software. Crosslisted with: SUR 143. Restricted to: Community Colleges only.

Prerequisite(s): DRFT 109.

DRFT 160. Construction Take-Offs and Estimating 3 Credits (2+2P)

Computing and compiling materials and labor estimates from working drawings using various techniques common in general building construction and in accordance with standard specifications and estimating formats. Use of spreadsheets and estimating software introduced.

Prerequisite: DRFT 151.

DRFT 163. Civil Infrastructure Detailing 3 Credits (2+2P)

Infrastructure detailing related to civil engineering projects including: ponding, roadway, sewer, and storm-water structures; concrete foundations; and related utility details. Restricted to Community Colleges campuses

Prerequisite(s): DRFT 109.

DRFT 164. Intermediate Mechanical Drafting/Solid Modeling 3 Credits (2+2P)

Intermediate 3D mechanical parametric solid modeling and assembly creation utilizing the latest version of Autodesk Inventor software. The creation of 2D working drawings from 3D solid models will be emphasized. Geometric Dimensioning and Tolerancing (GD&T), basic material properties, and industry standard fastening and manufacturing methods will be introduced.

Prerequisite(s)/Corequisite(s): DRFT 114. Restricted to Community Colleges campuses only.

DRFT 165. Introduction to Building Information Modeling 3 Credits (2+2P)

Introduction to Building Information Modeling (BIM) in the development of virtual 3D building models, construction documents, renderings and basic animations related to architectural, structural, and mechanical/electrical/plumbing building components. Utilizes the latest BIM technologies in the integration one, parametric BIM. Restricted to Community Colleges campuses only.

DRFT 176. Solid Modeling, Rendering and Animation 3 Credits (2+2P)

Introduction to three dimensional drafting and solid modeling, rendering and animation for architecture and engineering fields. Material application, mapping, and scene lighting will be introduced. Restricted to: Community Colleges only.

Prerequisite(s): DRFT 109.

DRFT 180. Residential Drafting

3 Credits (2+2P)

Basic residential drafting including, floor plans, foundation plans, sections, roof plans, exterior and interior elevations, and site plans. Applicable residential building and zoning codes, construction methods and materials, adaptable residential design, and drawing and sheet layout for architectural drafting will be introduced. Restricted to Community Colleges campuses only.

Prerequisite(s): DRFT 109.

DRFT 181. Commercial Drafting

3 Credits (2+2P)

Drafting principles, plan coordination, and code analysis applicable in the development of working drawings for commercial, public, and industrial building projects. Students will utilize National Cad Standards, ADA Standards, and will be introduced to modern office practice. May be repeated up to 3 credits. Restricted to Community Colleges campuses **Prerequisite(s)**: DRFT 109.

DRFT 190. Finding and Maintaining Employment 2 Credits (2)

Techniques in self-evaluations, resume writing, application completion, job interviewing, and job retention. Exposure to work ethics, employee attitudes, and employer expectations.

DRFT 204. Geographic Information Systems Technology 3 Credits (2+2P)

The use of digital information for which various digitized data creation methods are captured. Users will capture, store, analyze and manage spatially referenced data in a modeled mapping procedure. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

DRFT 214. Advanced Solid Modeling 3 Credits (2+2P)

Advanced 3D mechanical parametric solid modeling and assembly creation utilizing the latest version of Solidworks software. The creation of 2D working drawings from 3D solid models and the creation of 3D models for machining/manufacturing will be emphasized. Geometric Dimensioning and Tolerancing (GD&T), material properties, and industry standard fastening and manufacturing methods will be further explored. Prerequisite(s)/Corequisite(s): DRFT 114. Restricted to Community Colleges campuses only.

DRFT 222. Surveying Fundamentals 3 Credits (2+3P)

Theory and practice of geomatics as applied to plane surveying in the areas of linear measurements, angle measurements, area determination, differential and trigonometric leveling, and topographic mapping. Crosslisted with: SUR 222. Restricted to Community Colleges campuses only.

Prerequisite(s): MATH 1250G.

DRFT 230. Building Systems Drafting 3 Credits (2+2P)

Development of working drawings for electrical, plumbing, and HVAC systems, for residential and commercial building through the applications of both 2D Drafting and 3D Building Information Modeling (BIM) techniques. Basics of project setup, National CAD Standards, ADA Standards, modern office practice, code analysis, as well as Sustainability and LEED for new construction. Restricted to: Community Colleges only. **Prerequisite(s)**: DRFT 180 or DRFT 181.

DRFT 231. Construction Methods and Equipment 3 Credits (2+2P)

Introduction to methods and equipment utilized in the construction industry including, common construction equipment, equipment utilization, equipment operating costs, site and earthwork, applicable specifications and testing, and related planning and safety considerations. Restricted to Community Colleges campuses only. **Prerequisite(s):** DRFT 151.

DRFT 240. Structural Systems Drafting 3 Credits (2+2P)

Study of foundations, wall systems, floor systems and roof systems in residential, commercial and industrial design/construction. Produce structural drawings including foundation plans, wall and building sections, floor and roof framing plans, shop drawings and details; schedules, materials lists and specifications. Use of various software. May be repeated up to 3 credits.

Prerequisite(s)/Corequisite(s): DRFT 180 or DRFT 181. Restricted to Community Colleges campuses only.

DRFT 242. Roadway Development Drafting 3 Credits (2+2P)

Advanced civil/survey technology and drafting related to roadway development. Emphasis is on relevant terminology, codes/standards, and the production of complex working drawings such as topographical/grading, drainage, master utilities, roadway P P/details/etc., according to agency standards. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): DRFT 143.

DRFT 243. Land Development Drafting 3 Credits (2+2P)

Advanced civil/survey technology and drafting related to land development. Emphasis is on relevant terminology codes/standards, and the production of complex working drawings such as subdivision plats, local utility and drainage plans, construction details roadway P P, etc., according to local development/ agency standards.

Prerequisite: DRFT 143 and DRFT 153.

DRFT 250. Principles of Detailing and Design 3 Credits (2+2P)

Advanced practice in construction documentation in the development and coordination of working drawings & specifications. In particular, will utilize Architectural Graphic Standards, National CAD Standards, and ADA standards to develop detail drawings related to Architectural, Civil, Structural and Building Mechanical systems. Will also be introduced to basic principles, factors, and process of building design such as space planning, site analysis, and basic architectural programming. May be repeated up to 3 credits.

Prerequisite(s)/Corequisite(s): DRFT 180 or DRFT 181. Restricted to Community Colleges campuses only.

DRFT 254. Spatial Data Processing 3 Credits (2+2P)

Utilizes the tools and technologies of GIS, processing volumes of geodata identifying a numerical, coded or listed map. Involves the analysis of spatial data from various diverse applications and place in a descriptive mapping process. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): DRFT 204.

DRFT 255. Independent Study

1-3 Credits (1-3)

Instructor-approved projects in drafting or related topics specific to the student's individual areas of interest and relevant to the drafting and graphics technology curriculum. Consent of instructor required. May be repeated for a maximum of 6 credits.

DRFT 258. Introduction to Infraworks 3 Credits (2+2P)

Introduction to the utilization of Infraworks software for the conceptualization, optimization, and visualization of infrastructure projects in the context of the built and natural environment. Restricted to Community Colleges campuses

Prerequisite(s): DRFT 143.

DRFT 261. Construction Scheduling and Project Management 3 Credits (2+2P)

Introduction to construction scheduling and project management. Restricted to Community Colleges campuses only.

Prerequisite(s): DRFT 161.

DRFT 265. Advanced Building Information Modeling Applications 3 Credits (2+2P)

Advanced applications of Building Information Modeling (BIM) including the creation of, and practice in collaborative work sets, data and design analyses, energy modeling and analysis, preliminary LEED analysis, construction take-offs & estimation, and construction animation, through use of various BIM and related software. Restricted to: Community Colleges only.

Prerequisite(s): DRFT 165.

DRFT 274. GIS Theory and Analysis

3 Credits (2+2P)

Analyzes the hypothesis in which location and spatial data sufficiently quantifies the appropriate statistical methodology. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): DRFT 254.

DRFT 276. Computer Rendering and Animation I 3 Credits (2+2P)

Introduction to technical applications of computer generated renderings and animations for the architecture and engineering fields. 3D models, photo-realistic renderings, and basic animation movie files will be produced utilizing industry standard modeling and animation software.

DRFT 278. Advanced CAD Applications 3 Credits (2+2P)

Introduction to advanced CAD commands, applications, usage techniques, and user customization. the latest version of the National CAD Standards will also be explored. Restricted to: Community Colleges only.

Prerequisite(s): DRFT 109.

DRFT 288. Portfolio Development

3 Credits (2+2P)

Production of a portfolio consisting of previously produced student work related to the student's individualized degree option. Process shall include the compilation and organization of working and presentation drawings, construction documents, BIM Models, and renderings/animations. Students will learn the basics of design layout and online portfolio documentation. Job search and resume preparation activities will also be required. Production of new material and content may also be required. This course is designed as a last semester course in the Drafting & Design curricula. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): Consent of Instructor.

DRFT 290. Special Topics

1-4 Credits (1-4)

Topics subtitled in the Schedule of Classes. May be repeated for a maximum of 12 credits.

DRFT 291. Cooperative Experience

1-6 Credits (1-6)

Supervised cooperative work program. Student is employed in an approved occupation and supervised and rated by the employer and instructor. Student meets with advisor weekly. Graded S/U.

Prerequisite: consent of instructor.

DRFT 295. Professional Development and Leadership DAGA 1 Credit (1)

Students gain experience in leadership, team building, performing community service, and membership and/or leadership in a student organization. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

E E-ELECTRICAL ENGINEERING (E E)

E E 100. Introduction to Electrical and Computer Engineering 4 Credits (3+3P)

Introduction to analog (DC) and digital electronics. Includes electric component descriptions and equations, Ohm's law, Kirchhoff's voltage and current laws, ideal op-amp circuits, Boolean algebra, design of combinational and sequential logic circuits and VHDL or VERILOG. May be repeated up to 4 credits.

Prerequisite(s)/Corequisite(s): C- or better in MATH 1250G.

E E 112. Embedded Systems

4 Credits (3+3P)

Introduction to programming through microcontroller-based projects. Extensive practice in writing computer programs to solve engineering problems with microcontrollers, sensors, and other peripheral devices. **Prerequisite(s)/Corequisite(s)**: E E 100.

E E 200. Linear Algebra, Probability and Statistics Applications 4 Credits (3+3P)

The theory of linear algebra (vectors and matrices) and probability (random variables and random processes) with application to electrical engineering. Computer programming to solve problems in linear algebra and probability.

Prerequisite(s): C- or better in E E 112 and MATH 1521G or MATH 1521H.

E E 212. Introduction to Computer Organization 4 Credits (3+3P)

Concepts of modern computer organization, CPU control, pipelining, memory hierarchies, memory mapping, hardware-software interface, and operating systems.

Prerequisite(s)/Corequisite(s): E E 112. Prerequisite(s): C- or better in E E 100 and MATH 1250G.

E E 230. Circuit Analysis and Introduction to Electronics 4 Credits (3+3P)

Circuit analysis techniques, RLC transients, phasors, filter response, and an introduction to discrete electronic devices.

Prerequisite(s)/Corequisite(s): PHYS 1320G. Prerequisite(s): C- or better in E E 100 and MATH 1521G or MATH 1521H.

E E 240. Multivariate and Vector Calculus Applications 3 Credits (3)

Vector algebra, cylindrical and spherical coordinates, partial derivatives, multiple integrals. Calculus of vector functions through electrostatic applications. Divergence, gradient, curl, divergence theorem, Stokes's theorem, Coulomb's Law, Gauss's Law, electric field, electric potential. Applications in Matlab.

Prerequisite(s): C- or better in MATH 1521G or MATH 1521H and E E 112.

E T-ENGINEERING TECHNOLOGY (E T)

ET 104. Soldering Techniques

1 Credit (3P)

Fundamentals of soldering, desoldering, and quality inspection of printed circuit boards.

E T 106. Drafting Concepts/Computer Drafting Fundamentals I 4 Credits (2+4P)

Basic drafting skills, terminology, and visualization. Introduction to principles and fundamentals of computer-aided drafting. Community Colleges only. Same as DRFT 112.

Prerequisite: OECS 125, OECS 207, or consent of instructor.

ET 109. Computer Drafting Fundamentals

3 Credits (3+2P)

Crosslisted with: DRFT 109, C E 109 and SUR 109

ET 110. Introduction to 3-D Modeling (Solid Works) 3 Credits (2+3P)

Introduction to SolidWorks, a 3-D modeling software. The foundation for designing mechanical parts and assemblies.

ET 120. Computation Software

2-3 Credits (2-3)

The use of spreadsheet software in the field of engineering technology.

E T 125. Introduction to Renewable Energy

3 Credits (3)

Renewable energy systems, including topics in thermal-solar photovoltaic, wind, geothermal systems, and other current topics. Theory, practical applications, safety considerations and the economics of alternative renewable energy systems compared to conventional systems.

E T 153. Introduction to Computer Networks 3 Credits (3)

Introduction to basic computer network fundamentals including International Open Systems Interconnect (OSI), the seven-layer model, and various networking hardware devices. Community Colleges only.

E T 154. Construction Methods and Communications 3 Credits (3)

Blueprint reading, specifications, and introduction to materials used in construction.

E T 155. Network Operating Systems I 3 Credits (3+1P)

Introduction to a computer network operating system. May not be used as part of an E T degree program on main campus. Restricted to: Community Colleges only.

Prerequisite(s): ET 120 or ET 122.

ET 156. Introduction to Information Security

2 Credits (2)

This course introduces information security terminology, historical evolution of digital security, types of PC and network system vulnerabilities and types of information loss. In addition, methods of information protection and integrity, intrusion detection, and recovery of data are introduced.

Prerequisite(s)/Corequisite(s): E T 120. Restricted to Community Colleges campuses only.

ET 160. Windows Fundamentals for IET

3 Credits (3)

Fundamental review of the Windows operating system including installation and upgrades as well as managing applications, files, folders, devices and maintenance.

ET 182. Digital Logic

3 Credits (3)

The use of truth tables, Boolean equations, and diagrams to define, simplify, and implement logic-valued functions.

ET 183. Applied DC Circuits

3 Credits (2+2P)

Application of Ohm's law, Kirchhoff's laws, Thevenin's, and Norton's theorems to the analysis of DC passive circuits. Embedded Lab. **Prerequisite(s)/Corequisite(s):** MATH 1220G.

ET 183 L. Applied DC Circuits Lab

1 Credit (2P)

DC applied circuits lab. **Corequisite(s):** E T 183.

ET 184. Applied AC Circuits

3 Credits (2+2P)

Application of circuit laws and theorems to analysis of AC passive circuits. Resonant circuit, polyphase circuit and magnetic circuit topics are introduced. Embedded Lab.

Prerequisite(s)/Corequisite(s): MATH 1250G. Prerequisite(s): ET 183.

ET 184 L. Applied AC Circuits Lab

1 Credit (2P)

AC applied circuits lab Corequisite(s): E T 184.

ET 190. Applied Circuits

4 Credits (3+2P)

Application of Ohm's law, Kirchhoff's laws, and Thevenin's theorems to the analysis of AC and DC passive circuits. Electronic circuit topics are introduced. Embedded lab.

Prerequisite(s)/Corequisite(s): MATH 1250G.

ET 191. Applied Circuits Laboratory

1 Credit (2P)

Applied Circuits Lab

ET 200. Special Topics

1-3 Credits

Directed study or project. May be repeated for a maximum of 6 credits. **Prerequisite:** consent of department head.

E T 203. Computational Foundations

3 Credits (3)

Fundamental concepts of various proof techniques. These concepts will be applied to the use of computer algorithms, programming languages and other engineering and technology applications.

Prerequisite(s): MATH 1250G and ET 262.

ET 210. Intermediate 3-D Modeling (Solid Works)

3 Credits (3)

Intermediate 3-D modeling. Applied modeling of techniques to prepare for SolidWorks certification (CSWA).

Prerequisite(s): ET 110.

ET 217. Manufacturing Processes

3 Credits (3)

Introduction to manufactuing and processing, including: casting, forming, and machining. Emphasis on creating products with the appropriate techniques. Crosslisted with: I E 217.

Prerequisite(s)/Corequisite(s): ET 217L. Prerequisite(s): ET 110 and MATH 1220G.

ET 217 L. Manufacturing Processes Lab

1 Credit (3P)

Hands-on laboratory in machine shop to apply topics from ET 217, including: casting, forming, and machining.

Prerequisite(s)/Corequisite(s): E T 217.

ET 220. Internship

1-6 Credits

Internship requiring an approved number of hours of varied and progressive experience in the field of study. The scope and other requirements of the internship are stated in an individualized syllabus and through a memorandum of understanding between the faculty mentor and the industry partner. May be repeated up to 6 credits. Consent of Instructor required.

Prerequisite(s): E T 283.

ET 230. Introduction to Servo Systems

1 Credit (2P)

Introduction to Servo Systems. Topics include uses of servos in the industry, servo types, lop gains and frequency response, software control systems, damping, feedback, encoders, synchros and resolvers. Restricted to Community Colleges campuses only.

Prerequisite(s): E T 246.

ET 240. Applied Statics

3 Credits (3)

Fundamental topics of applied statics, including force system analysis, equilibrium, free body diagrams, methods of joints and sections, distributed loads, friction, centroids, area moments, and shear and moment diagrams.

Prerequisite(s)/Corequisite(s): MATH 1430G or MATH 1511G.

Prerequisite(s): PHYS 1230G or PHYS 1310G.

ET 241. Applied Dynamics

3 Credits (3)

The foundation for understanding particles and bodies in motion and the forces involved, including: projectile motion, Newton's Laws of Motion, conservation of energy, and impusle and momentum.

Prerequisite(s)/Corequisite(s): (MATH 1140 or MATH 1521G or MATH 1521H). Prerequisite(s): E T 240.

ET 245. Computer Hardware Fundamentals

3 Credits (2+2P)

Computer hardware fundamentals including architecture, interfacing, peripherals, troubleshooting, system upgrades, and maintenance. Restricted to Las Cruces campus only.

ET 246. Electronic Devices I

4 Credits (3+3P)

Solid-state devices including diodes, bipolar-transistors, and field effect transistors. Use of these devices in rectifier circuits, small signal and power amplifiers.

Prerequisite(s): ET 190 or ET 184.

E T 253. Networking Operating Systems II

3 Credits (3+1P)

Introduction to a computer network operating system. May not be used as part of an ET degree program on main campus. Restricted to Community Colleges campuses only.

Prerequisite(s): ET 155.

E T 254. Concrete Technology

3 Credits (2+2P)

Fundamentals of aggregates, Portland cement, and asphalt used in design and construction.

E T 255. Linux System Administration

3 Credits (3)

A system administration view of the Linux operating system covering various distributions with a focus on managing the operating system and enterprise applications that run on Linux.

E T 256. Networking Operating Systems III

3 Credits (3+1P)

Introduction to a computer network operating system. May not be used as part of an ET degree program on main campus. Restricted to Community Colleges campuses only.

Prerequisite(s): ET 253.

E T 262. Software Technology I

3 Credits (2+2P)

An introduction to computer programming concepts as applied to engineering technology. Includes basic logic design, algorithm development, debugging and documentation. History and use of computers and their impact on society.

Prerequisite(s)/Corequisite(s): ET 182 or MATH 1250G.

ET 272. Electronic Devices II

4 Credits (3+3P)

Operational amplifiers, positive and negative feedback, computer aided circuit analysis. In addition circuits include integrator, differentiators and phase shift networks.

Prerequisite(s)/Corequisite(s): MATH 1430G or MATH 1511G.

Prerequisite(s): ET 246.

E T 273. Fundamentals of Networking Communications I 4 Credits (2+4P)

Introduction to networking basics, including computer hardware and software, electricity, networking terminology, protocols, LANs, WANs, OSI model, IP addressing, and design and documentation of basic network and structure cabling. Community Colleges only. May be repeated up to 4 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): ET 153.

E T 276. Electronic Communications

3 Credits (2+2P)

Antennas, transmission devices, A-M and F-M transmission and detection, pulse systems, microwave systems.

Prerequisite(s): ET 246.

ET 277. Computer Networking I for IET

3 Credits (2+2P)

Computer network design and applications for LAN, TCP/IP networks, routing and switching technologies, VLANs, and the OSI layers from physical to transport.

Prerequisite(s): ET 182.

E T 280. Multimedia Tools and Support

3 Credits (3)

Introduction to video, audio and other digital presentation methods. Addresses the latest multimedia technology advances and how they apply to the information and communication technology fields. Sample tools like ffmpeg, and Audacity are covered.

ET 282. Digital Electronics

4 Credits (3+3P)

Applications of digital integrated circuits, multiplexers, counters, arithmetic circuits, and microprocessors.

Prerequisite(s)/Corequisite(s): (E T 190 or E T 184). Prerequisite(s): E T 182.

ET 283. Hardware PC Maintenance

3 Credits (3+1P)

Installing, configuring, troubleshooting, and maintaining personal computer hardware components.

Prerequisite(s): ET 120 or ET 122.

ET 284. Software PC Maintenance

3 Credits (3+1P)

Installing, configuring, troubleshooting, and maintaining personal computer operating systems.

Prerequisite(s): E T 120 or E T 122.

ET 285. Advanced Information Security

3 Credits (3)

The course covers detailed analysis of network security, including security operations and policy adherence; internal and external vulnerabilities; methods of identifying, controlling and managing system access, and the protection of system information.

Prerequisite(s)/Corequisite(s): ET 283. Prerequisite(s): ET 156.

E T 286. Information Security Certification Preparation 4 Credits (4)

The course covers the examination objectives and detailed preparation for a certification in information security.

Prerequisite(s): ET 285.

E T 290. Networking Wireless Communication 3 Credits (3+1P)

This course provides an introduction to wireless networking and communications. Some of the topics covered are protocols, transmission methods, and IEEE 802.11 standards. Wireless LAN (WLAN) fundamentals, devices, and security, cellular telephony, broadband, and satellite communications.

Prerequisite: ET 273.

ET 291. PC Forensics and Investigation

3 Credits (3)

Introduction to computer forensics and investigative fundamentals. Topics include understanding computer forensic and investigation law and requirements, processing crime and incident scenes, and the extraction, preservation, analysis and presentation of computer-related evidence.

Prerequisite(s): ET 120 or ET 122.

ECED-EARLY CHILDHOOD EDUCATION (ECED)

ECED 1110. Child Growth, Development, and Learning 3 Credits (3)

This basic course in the growth, development, and learning of young children, prenatal through age eight, provides students with the theoretical foundation for becoming competent early childhood professionals. The course includes knowledge of how young children grow, develop and learn. Major theories of child development are integrated with all domains of development, including biological-physical, social, cultural, emotional, cognitive and language. The adult's role in supporting each child's growth, development and learning is emphasized.

ECED 1115. Health, Safety, and Nutrition 2 Credits (2)

This course provides information related to standards and practices that promote children's physical and mental well-being sound nutritional practices, and maintenance of safe learning environments. It includes information for developing sound health and safety management procedures for indoor and outdoor learning environments for young children. The course examines the many scheduling factors that are important for children's total development, healthy nutrition, physical activity, and rest.

ECED 1120. Guiding Young Children 3 Credits (3)

This course explores various theories of child guidance and the practical applications of each. It provides developmentally appropriate methods for guiding children and effective strategies and suggestions for facilitating positive social interactions. Strategies for preventing challenging behaviors through the use of environment, routines and schedule will be presented Emphasis is placed on helping children become self- responsible, competent, independent, and cooperative learners and including families as part of the guidance approach.

ECED 1125. Assessment of Children and Evaluation of Programs 3 Credits (3)

This basic course familiarizes students with a variety of culturally appropriate assessment methods and instruments, including systematic observation of typically and non-typically developing children. The course addresses the development and use of formative and summative assessment and evaluation instruments to ensure comprehensive quality of the total environment for children, families, and the community. Students will develop skills for evaluating the assessment process and involving other teachers, professionals and families in the process.

Prerequisite(s): ECED 1110 and (ENGL 1110G or ENGL 1110H or ENGL 1110M).

ECED 1130. Family and Community Collaboration 3 Credits (3)

This beginning course examines the involvement of families and communities from diverse cultural and linguistic backgrounds in early childhood programs. Ways to establishes collaborative relationships with families in early childhood settings is discussed. Families' goals and desires for their children will be supported through culturally responsive strategies.

Prerequisite(s): ECED 1110 and (ENGL 1110G or ENGL 1110H or ENGL 1110M).

ECED 2110. Professionalism

2 Credits (2)

This course provides a broad-based orientation to the field of early care and education. Early childhood history, philosophy, ethics and advocacy are introduced. Basic principles of early childhood systems are explored. Multiple perspectives on early care and education are introduced. Professional responsibilities such as cultural responsiveness and reflective practice are examined.

ECED 2115. Introduction to Language, Literacy, and Reading 3 Credits (3)

This course is designed to prepare early childhood professionals for promoting children's emergent literacy and reading development. Through a developmental approach, the course addresses ways in which early childhood professionals can foster young children's oral language development, phonemic awareness, and literacy problem solving skills, fluency, vocabulary, and comprehension. This course provides the foundation for early childhood professionals to become knowledgeable about literacy development in young children. Instructional approaches and theory-based and research based strategies to support the emergent literacy and reading skills of native speakers and English language learners will be presented.

Prerequisite(s): ECED 1110 and (ENGL 1110G or ENGL 1110H, or ENGL 1110M).

ECED 2120. Curriculum Development through Play Birth through Age 4 (PreK)

3 Credits (3)

The beginning curriculum course places play at the center of curriculum in developmentally appropriate early childhood programs. It addresses content that is relevant for children birth through age four in developmentally and culturally sensitive ways of integrating content into teaching and learning experiences. Information on adapting content areas to meet the needs of children with special needs and the development of IFSPs is included. Curriculum development in all areas, including literacy, numeracy, the arts, health, science, social skills, and adaptive learning for children, birth through age four, is emphasized. Consent of instructor required.

Prerequisite(s): ECED 1110 and (ENGL 1110G or ENGL 1110H or ENGL 1110M).

Corequisite(s): ECED 2121.

ECED 2121. Curriculum Development through Play Birth through Age 4 (PreK) Practicum

2 Credits (2)

The beginning practicum course is a co-requisite with the course Curriculum Development through Play – Birth through Age 4. The field based component of this course will provide experiences that address curriculum content that is relevant for children birth through age four in developmentally and culturally sensitive ways of integrating content into teaching and learning experiences. Information on adapting content areas to meet the needs of children with special needs and the development of IFSPs is included. Curriculum development in all areas, including literacy, numeracy, the arts, health, science, social skills, and adaptive learning for children, birth through age four, is emphasized. Consent of instructor required.

Prerequisite(s): ECED 1110 and (ENGL 1110G or ENGL 1110H or ENGL 1110M).

Corequisite(s): ECED 2120.

ECED 2130. Curriculum Development and Implementation Age 3 (PreK) through Grade 3

3 Credits (3)

The curriculum course focuses on developmentally appropriate curriculum content in early childhood programs, age 3 through third grade. Development and implementation of curriculum in all content areas, including literacy, numeracy, the arts, health and emotional wellness, science, motor and social skills, is emphasized. Information on adapting content areas to meet the needs of children with special needs and the development of IEP's is included. Consent of instructor required. **Prerequisite(s):** ECED 1110 and (ENGL 1110G or ENGL 1110H or ENGL 1110M).

Corequisite(s): ECED 2131.

ECED 2131. Curriculum Development and Implementation Age 3 (PreK) through Grade 3 Practicum

2 Credits (2)

The beginning practicum course is a co-requisite with the course Curriculum Development and Implementation: Age 3 through Grade 3. The field based component of this course will provide experiences that address developmentally appropriate curriculum content in early childhood programs, age 3 through third grade. Development and implementation of curriculum in all content areas, including literacy, numeracy, the arts, health and emotional wellness, science, motor and social skills is emphasized. Information on adapting content areas to meet the needs of children with special needs and the development of IEPs is included. Consent of instructor required. Corequisite(s): ECED 2130

Prerequisite(s): ECED 1110 and (ENGL 1110G or ENGL 1110H or ENGL 1110M).

ECED 2140. Effective Program Development for Diverse Learners and their Families

3 Credits (3)

This course addresses the role of a director/administrator in the implementation of family-centered programming that includes individually appropriate and culturally responsive curriculum in a healthy and safe learning environment for all children and their families.

ECED 2141. Effective Program Development for Diverse Learners and their Families Practicum

2 Credits (2)

Provides opportunities for students to apply knowledge gained from Curriculum for Diverse Learners and their Families in a practicum setting. Consent of instructor required. Restricted to ECED majors.

Corequisite(s): ECED 2140.

ECED 2215. Program Management

3 Credits (3)

This course emphasizes the technical knowledge necessary to develop and maintain an effective early care and education program. It focuses on sound financial management and vision, the laws and legal issues that affect programs, and state and national standards such as accreditation. Consent of instructor required.

ECED 2280. Professional Relationships 3 Credits (3)

This course addresses staff relations that will foster diverse professional relationships with families, communities and boards. Topics of staff recruitment, retention, support and supervision will lay the foundation for positive personnel, family and community relationships. Consent of instructor required.

Corequisite(s): ECED 2281.

ECED 2281. Professional Relationships Practicum 2 Credits (2)

Practical experience in the development of staff relationship that will foster professional relationships with families, communities and boards. Issues of staff recruitment, retention, support and supervision will lay a foundation for positive personnel management. Consent of instructor required. Restricted to ECED majors.

Corequisite(s): ECED 2280.

ECON-ECONOMICS (ECON)

ECON 1110G. Survey of Economics

3 Credits (3)

This course will develop students' economics literacy and teaches students how economics relates to the everyday life of individuals, businesses and society in general. The course will also introduce students to the roles different levels of governments play in influencing the economy. At the conclusion of the course, students will be able to identify economic causes for various political and social problems at national and international levels, and have a better understanding of everyday economic issues that are reported in media and public forums.

ECON 2110G. Macroeconomic Principles 3 Credits (3)

Macroeconomics is the study of national and global economies. Topics include output, unemployment and inflation; and how they are affected by financial systems, fiscal and monetary policies.

ECON 2110H. Principles of Macroeconomics Honors 3 Credits (3)

Macroeconomic theory and public policy designed: national income concepts, unemployment, inflation, economic growth and international payment problems. Must be a Crimson Scholar.

Prerequisite(s): MATH 1220G.

ECON 2120G. Microeconomics Principles 3 Credits (3)

This course will provide a broad overview of microeconomics. Microeconomics is the study of issues specific to households, firms, or industries with an emphasis on the role of markets. Topics discussed will include household and firm behavior, demand and supply,government intervention, market structures, and the efficient allocation of resources.

ECON 2120H. Principles of Microeconomics Honors 3 Credits (3)

Microeconomic theory and public policy: supply and demand, theory of the firm, market allocation of resources, income distribution, competition and monopoly, governmental regulation of businesses and unions. Must be a Crimson Scholar.

Prerequisite(s): MATH 1220G.

EDLT-EDUCATIONAL TECHNOLOGY

EDLT 2110. Integrating Technology with Teaching 3 Credits (3)

Considers impact of technology on communication and knowledge development; engages students in the design of technology-integrated lessons with a constructivist approach.

EDUC-EDUCATION (EDUC)

EDUC 1110. Freshman Orientation

1 Credit (1)

Introduction to the university and to the College of Education. Discussion of planning for individualized education program and field experience. Restricted to Las Cruces campus only.

EDUC 1120. Introduction to Education 2 Credits (2)

Introduction to the historical, philosophical, sociological foundations of education, current trends, and issues in education; especially as it relates to a multicultural environment. Students will use those foundations to develop effective strategies related to problems, issues and responsibilities in the field of education. Restricted to Las Cruces

EDUC 1140. Math for Paraprofessionals

3 Credits (3)

campus only.

Applied math skills for paraprofessionals working with children.

Prerequisite: CCDM 103 N.

EDUC 1150. Math for Paraprofessionals II

3 Credits (3)

Applied math skills for paraprofessionals working under the direction of a

Prerequisite(s): EDUC 1140.

EDUC 1185. Introduction to Secondary Education and Youth 3 Credits (3)

Introductory course for students considering a career in secondary education. Includes historical, philosophical, and sociological foundations, program organization, critical dispositions, and understanding the context of schools and youth. Practicum required. Restricted to: Secondary Ed majors. Traditional Grading with RR.

EDUC 1995. Field Experience I

1 Credit (1)

Introduction to public school teaching, school visits, classroom observations and discussion seminar.

EDUC 1996. Special Topics in Education

1 Credit (1

Supervised study in a specific area of interest. Each course shall be designated by a qualifying subtitle. May be repeated for a maximum of 9 credits.

EDUC 1998. Internship I

3 Credits (3)

Supervised experience in elementary education settings.

EDUC 2710. Pre-Teacher Preparation

3 Credits (3)

Assists students in developing the necessary competencies needed for acceptance to the Teacher Education Program. Course content includes basic skill development, test taking skills, and completion of teacher preparation packet. Maybe repeated for a maximum of 6 credits. Graded S/U. Community Colleges only.

EDUC 2998. Internship II

3 Credits (3)

Supervised experience in junior high settings.

Prerequisite: must be a co-op student.

ELAD-EDUCATIONAL LEADERSHIP ADMINISTRATION

ELAD 2210. Leadership and Change in Education 3 Credits (3)

This course will introduce students to the challenges and key strategies in initiating, implementing, and sustaining educational change and reform. In the first part of the course, participants will learn about the challenges of educational change in the United States and the role that they as school leaders play in facilitating change and reform. The course continues with an examination of how culture, micro-politics, and power structures support or impede national and global change initiatives. The last part of the course offers suggestions for change agents including community organizing, culture building, and embracing sustainable leadership practices. Participants will learn how to apply the change theories and concepts introduced in the course to practice through course readings, online discussions with the instructor and colleagues, group work, active examination of daily practice in schools, and personal reflection.

ELAD 2340. Multicultural Leadership in Education 3 Credits (3)

Introduction to the social and cultural constructions of gender, class, and race. Students will critically apply theoretical constructs to everyday life and discuss the intersection of gender and race with class inequality in national and global contexts. Using a social justice framework, readings, and assignments integrate a variety of racial/ethnic groups while considering the effects of historically uneven resource distribution, unearned privilege, forms of domination and subordination, immigration status, and cultural representation and ideologies. Participants will learn how to apply the change theories and concepts introduced in the course to practice through course readings, online discussions with the instructor and colleagues, group work, active examination of daily practice in schools, and personal reflection.

ELAD 2996. Special Topics in Educational Leadership 1-3 Credits (1-3)

Special topics course in education for undergraduate students. Course will be identified by a subtitle. May be repeated up to 12 credits.

Restricted to Las Cruces campus only.

ELT - ELECTRONICS TECHNOLOGY (ELT)

ELT 103. Math Study Skills for Electronics 1 Credit (1)

Covers specific math study skills and critical thinking processes to reinforce practical applications of math and its use with electronics. The student will be introduced to electronic mathematical formulas during the problem-solving steps required for circuit analysis. May be repeated up to 4 credits.

Prerequisite(s)/Corequisite(s): ET 183 OR ET 184. Restricted to Community Colleges only.

ELT 105. Basic Electricity and Electronics 3 Credits (2+2P)

Fundamentals of electricity and electronics, basic circuit devices, meters, transistors, integrated circuits and other solid state devices, computers, fiber optics, and industrial application topics. Minimum math proficiency of CCDM 103 or CCDM 104 required or math placement into CCDM 114 or higher. Restricted to: Community Colleges only. Crosslisted with: AERT 111

ELT 110. Electronics I

4 Credits (3+3P)

Fundamentals of electronics including: components, schematics, Ohm's law, Thevenin's and Norton's theorems, and series/parallel circuits incorporating passive, active and magnetic elements. Introduction to AC circuits. Crosslisted with: AERT123. Restricted to: Community Colleges only.

ELT 120. Mathematics for Electronics 4 Credits (4)

Includes fundamental mathematics, algebra, sine, cosine, and other elementary functions as they specifically apply to the operation, manipulation, and evaluation of direct current (DC) and alternating current (AC) circuits. Minimum math proficiency of CCDM 114 required or math placement into MATH 1215 or higher. Restricted to: Community Colleges only. Crosslisted with: AERT 124

ELT 135. Electronics II

4 Credits (3+3P)

Analysis of AC circuits, filters, and resonance. Introduction to solid state fundamentals including diodes and rectifier circuits, voltage regulators, various transistors and transistor characteristics, amplification and amplifiers, photoelectric effects, gates and timing circuits. Restricted to Community Colleges campuses only.

Prerequisite(s): ELT 110 and ELT 120.

ELT 155. Electronics CAD and PCB Design

3 Credits (2+2P)

Introduction to and the use of commercially available CAD software covering schematic representation of electronic components and circuits. Printed circuit board layout techniques including proper schematic capture, netlist generation, design rule checking and manual routing covered.

ELT 160. Digital Electronics I

4 Credits (3+3P)

Number systems, codes, Boolean algebra, logic gates, Karnaugh maps, combination circuits, flip-flops, and digital troubleshooting techniques. Restricted to: Community Colleges only.

Prerequisite(s): ELT 110 and (ELT 120 or MATH 1215).

ELT 175. Soldering Practices

3 Credits (2+2P)

Methods and techniques of hand soldering in the production of high quality and reliable soldering connections. Restricted to: Community Colleges only.

ELT 205. Semiconductor Devices

4 Credits (3+3P)

Analysis and trouble shooting of linear electronic circuits including amplifiers, op-amps, power supplies, and oscillators. Restricted to: Community Colleges only.

Prerequisite(s): ELT 110 and ELT 135.

ELT 215. Microprocessor Applications I

4 Credits (3+2P)

Fundamentals of microprocessor architecture and assembly language with an emphasis on hardware interfacing applications.

Prerequisite(s)/Corequisite(s): ELT 235. Prerequisite(s): ELT 160.

Restricted to: Community Colleges only.

ELT 220. Electronic Communication Systems

4 Credits (3+2P)

Principles and applications of circuits and devices used in the transmission, reception, and processing of RF, microwave, digital and telecommunications systems.

Prerequisite(s)/Corequisite(s): ELT 205. Prerequisite(s): ELT 135.

Restricted to: Community Colleges only.

ELT 221. Cooperative Experience I

1-6 Credits

Supervised cooperative work program. Student is employed in an approved occupation and supervised and rated by the employer and instructor. Student will meet in a weekly class. Graded S/U.

Prerequisite: consent of instructor.

ELT 222. Cooperative Experience II

1-6 Credits

Continuation of ELT 221. Maximum of 6 credits. Graded S/U.

Prerequisite: consent of instructor.

ELT 225. Computer Applications for Technicians

3 Credits (2+2P)

An overview of computer hardware, software applications, operating systems, high level programming languages and networking systems.

ELT 230. Microprocessor Applications II

4 Credits (3+2P)

Advanced microprocessor interfacing techniques. Topics in A/D and D/A conversion, I/O port address decoding, direct memory accessing, and peripheral device interfacing applications.

Prerequisite: ELT 215.

ELT 235. Digital Electronics II

3 Credits (2+2P)

Sequential logic circuits, latches, counters, shift-registers, fault analysis and troubleshooting of digital IC s, multiplexers, timers, encoders/ decoders, arithmetic circuits, pulse shaping, and memory devices.

Restricted to: Community Colleges only.

Prerequisite(s): ELT 160.

ELT 240. Introduction to Photonics

4 Credits (3+2P)

Nature of light, light emitters, lasers, detectors, fiber optics communications systems, and other applications of light to electronics.

Prerequisite: ELT 135 or consent of instructor.

ELT 250. Electronics Systems Analysis

2 Credits (1+3P)

Capstone course emphasizing a systems approach to troubleshooting and maintaining complex electronics systems. Includes program review in preparation for technician certification.

Prerequisite: consent of instructor.

ELT 260. Instrumentation Control and Signal Conditioning 4 Credits (3+2P)

Introduction to sensors and transducers, signal conditioning and transmission for measuring and process control systems. Includes AD, DA converter, small servos and actuators. Prerequisite:ELT 205.

ELT 265. Special Topics

1-6 Credits

Topic to be announced in the Schedule of Classes.

ELT 270. Biomedical Equipment Instrumentation 4 Credits (3+2P)

Principles and applications of electronic circuits and devices used in biomedical equipment. Skills taught to include evaluating, troubleshooting and repairing various types of medical equipment. **Prerequisite(s)/Corequisite(s):** ELT 260. Prerequisite(s): ELT 205. Restricted to: Community Colleges only.

ELWK - ELECTRICAL LINEWORKER

ELWK 130. Introduction to Electrical Power Systems 2 Credits (2)

An overview of electrical power systems, equipment, safety practices, first aid and CPR. May be repeated up to 2 credits. Students must be accepted into the electrical lineworker program before enrolling in this course. Restricted to: OEET majors. Restricted to Community Colleges campuses only.

Corequisite(s): OEET 110,OEET 131.

ELWK 131. Electrical Lineworker Lab I 6 Credits (12P)

Climbing and work on utility poles using ropes and rigging, pole setting and an introduction to transmission and distribution line construction. Maintenance and troubleshooting to include the use of hot sticks. May be repeated up to 6 credits. Students must be accepted into the electrical lineworker program before enrolling in this course. Restricted to: OEET majors. Restricted to Community Colleges campuses only. Corequisite(s): OEET 110,0EET 130.

ELWK 140. Electrical Power Systems II 3 Credits (2+2P)

Theory of power generation and distribution with emphasis on three phase systems to include transformers, voltage regulators, surge arrestors. Includes troubleshooting. May be repeated up to 3 credits. Students must be accepted into the electrical lineworker program before enrolling in this course. Restricted to: OEET majors. Restricted to Community Colleges campuses only.

Corequisite(s): OEET 141.

ELWK 141. Electrical Lineworker II 6 Credits (12P)

Practice in the installation of electrical power lines including transformers, voltage regulators, and surge arrestors. Also advanced hot sticking procedures, troubleshooting, underground systems procedures, and pole-top rescue. May be repeated up to 6 credits. Students must be accepted into the electrical lineworker program before enrolling in this course. Restricted to: OEET majors. Restricted to Community Colleges campuses only.

Corequisite(s): OEET 140.

ELWK 221. Cooperative Experience I

1-4 Credits (1-4)

Supervised cooperative work program. Student is employed in an approved occupation and is supervised and rated by the employer and instructor. Student will meet in a weekly class. May be repeated up to 4 credits. Consent of Instructor required. Graded: S/U Grading (S/U, Audit). Restricted to Community Colleges campuses only.

Prerequisite(s): Consent of instructor.

ENGL-ENGLISH (ENGL)

ENGL 1105M. Intermediate ESL Composition and Grammar Review 3 Credits (3)

Development of fluent academic writing skills, with an emphasis on grammar review for editing purposes. May be repeated up to 3 credits. Restricted to Las Cruces campus only.

Prerequisite(s): Placement based on English language screening test, and either a minimum TOEFL score of 500 or consent of instructor.

ENGL 1110G. Composition I 4 Credits (4)

In this course, students will read, write, and think about a variety of issues and texts. They will develop reading and writing skills that will help with the writing required in their fields of study and other personal and professional contexts. Students will learn to analyze rhetorical situations in terms of audience, contexts, purpose, mediums, and technologies and apply this knowledge to their reading and writing. They will also gain an understanding of how writing and other modes of communication work together for rhetorical purposes. Students will learn to analyze the rhetorical context of any writing task and compose with purpose, audience, and genre in mind. Students will reflect on their own writing processes, learn to workshop drafts with other writers, and practice techniques for writing, revising, and editing.

Prerequisite(s): ACT standard score in English of 16 or higher, or an Accuplacer score 250 or higher, or an SAT score of 400 or higher or CCDE 1110 N.

ENGL 1110H. Composition I Honors 4 Credits (4)

In this course, students will read, write, and think about a variety of issues and texts. They will develop reading and writing skills that will help with the writing required in their fields of study and other personal and professional contexts. Students will learn to analyze rhetorical situations in terms of audience, contexts, purpose, mediums, and technologies and apply this knowledge to their reading and writing. They will also gain an understanding of how writing and other modes of communication work together for rhetorical purposes. Students will learn to analyze the rhetorical context of any writing task and compose with purpose, audience, and genre in mind. Students will reflect on their own writing processes, learn to workshop drafts with other writers, and practice techniques for writing, revising, and editing. Individualized assignments and independent study.

Prerequisite: ACT standard English score of 25 or higher, or an SAT score of 550 or higher.

ENGL 1110M. Composition I Multilingual 4 Credits (4)

In this course, students will read, write, and think about a variety of issues and texts. They will develop reading and writing skills that will help with the writing required in their fields of study and other personal and professional contexts. Students will learn to analyze rhetorical situations in terms of audience, contexts, purpose, mediums, and technologies and apply this knowledge to their reading and writing. They will also gain an understanding of how writing and other modes of communication work together for rhetorical purposes. Students will learn to analyze the rhetorical context of any writing task and compose with purpose, audience, and genre in mind. Students will reflect on their own writing processes, learn to workshop drafts with other writers, and practice techniques for writing, revising, and editing. For international and multilingual students. Your instructor and classmates will serve as your readers and will give you helpful and constructive criticism, which will in turn assist you in becoming a more fluent and engaging communicator in English. Restricted to Las Cruces campus only.

Prerequisite(s): CBT/PB score of 500, or IBT score of 61, or SPCD 110, or consent of instructor.

ENGL 1120. Composition II 2 Credits (2)

In this course, students will explore argument in multiple genres. Research and writing practices emphasize summary, analysis, evaluation, and integration of secondary sources. Students will analyze rhetorical situations in terms of audience, contexts, purpose, mediums, and technologies and apply this knowledge to their reading, writing, and research. Students will sharpen their understanding of how writing and other modes of communication work together for rhetorical purposes. The emphasis of this course will be on research methods.

Prerequisite: successful completion of ENGL 1110G or ENGL 1110H or ENGL 1110M.

ENGL 1410G. Introduction to Literature 3 Credits (3)

In this course, students will examine a variety of literary genres, including fiction, poetry, and drama. Students will identify common literary elements in each genre, understanding how specific elements influence meaning.

ENGL 2130G. Advanced Composition 3 Credits (3)

This course is for students who are striving for fluency, maturity, clarity and significance in their writing. It is an intermediate writing course that builds on and refines writing skills acquired in previous courses. It focuses on non-fiction writing for the professions, business, science, technical fields, academe and/or the popular press. Short works of master writers are studied for ideas, styleand structure.

ENGL 2210G. Professional & Technical Communication 3 Credits (3)

Professional and Technical Communication will introduce students to the different types of documents and correspondence that they will create in their professional careers. This course emphasizes the importance of audience, document design, and the use of technology in designing, developing, and delivering documents. This course will provide students with experience in professional correspondence and communicating technical information to a non-technical audience.

Prerequisite(s): Grade of C- or better in ENGL 1110G or ENGL 1110H or ENGL 1110M.

ENGL 2210H. Professional and Technical Communication Honors 3 Credits (3)

Professional and Technical Communication writing for Crimson Scholars/ Honors students will introduce students to the different types of documents and correspondence that they will create in their professional careers. This course emphasizes the importance of audience, document design, and the use of technology in designing, developing, and delivering documents. This course will provide students with experience in professional correspondence and communicating technical information to a non-technical audience. 3.5 GPA is also required. Restricted to Las Cruces campus only.

Prerequisite(s): grade of C- or better in ENGL 1110G or the equivalent; approval of the honors college.

ENGL 2215G. Advanced Technical and Professional Communication 3 Credits (3)

Theory and practice of writing in technical and professional fields, individualized to each student s field. Emphasizes efficient writing processes and effective written products. May be repeated up to 3 credits. Restricted to Las Cruces campus only.

Prerequisite(s): Junior or above standing, or consent of instructor.

ENGL 2221G. Writing in the Humanities and Social Science 3 Credits (3)

Theory and practice in interpreting texts from various disciplines in the humanities and social sciences. Strategies for researching, evaluating, constructing, and writing researched arguments. Course subtitled in the Schedule of Classes. May be repeated up to 3 credits.

Prerequisite(s): Grade of C- or better in ENGL 1110G or ENGL 1110H, or ENGL 1110M.

ENGL 2280. History of Argument 3 Credits (3)

Investigates the major figures and movements in rhetoric from the classical period to modern rhetorical theory, examining relations between rhetorical teaching and practice, culture, epistemology, and ideology. Main campus only. Prerequisite(s): ENGL 1110G, or ENGL 1110GH, or ENGL 1110M

ENGL 2310G. Introduction to Creative Writing 3 Credits (3)

This course will introduce students to the basic elements of creative writing, including short fiction, poetry, and creative nonfiction. Students will read and study published works as models, but the focus of this 'workshop' course is on students revising and reflecting on their own writing. Throughout this course, students will be expected to read poetry, fiction, and nonfiction closely, and analyze the craft features employed. They will be expected to write frequently in each of these genres. Prerequisite(s): ENGL 1110G or ENGL 1110H or ENGL 1110M.

ENGL 2381. Script Development and Storyboarding 3 Credits (3)

Examines effective writing principles for creating storyboards that communicate the overall picture of a project, timing, scene complexity, emotion and resource requirements. Crosslisted with: FDMA 2381.

ENGL 2382. Narrative: Principles of Story Across the Media 3 Credits (3)

Examines the various strategies of written and visual storytelling, narrative structure and its principal components (plot, theme, character, imagery, symbolism, point of view) with an attempt to connect them to elements of contemporary forms of media expression, including screenwriting, playwriting, writing for documentaries and animation, etc. Crosslisted with: FDMA 2382

ENGL 2520G. Film as Literature

3 Credits (3+3P)

The purpose of this course is to teach students how to analyze film as a visual text. Students will learn to analyze films, film techniques, eras, and genres. Students will also identify significant trends and developments in film-making, examining the ways in which film reflects and creates cultural trends and values.

ENGL 2521. The Bible as Literature

3 Credits (3)

Develops informed readings of Hebrew and Christian scriptures. Emphasizes understanding Biblical literary forms, techniques, themes; historical, cultural contexts for interpretation; authorship, composition, audience for individual books; development of Biblical canon.

ENGL 2610. American Literature I

3 Credits (3)

This course surveys American literature from the colonial period to the mid-nineteenth century. This course provides students with the contexts and documents necessary to understand the origins of American Literature and the aesthetic, cultural, and ideological debates central to early American culture.

ENGL 2620. American Literature II

3 Credits (3)

This course surveys American literature from the mid-nineteenth-century to the contemporary period. This course provides students with the contexts and documents necessary to understand American literature and the aesthetic, cultural, and ideological debates central to American culture.

ENGL 2630. British Literature I

3 Credits (3)

This course offers a study of British literature from its origins in Old English to the 18th century. This survey covers specific literary worksessays, short stories, novels, poems, and playseas well as the social, cultural, and intellectual currents that influenced the literature.

ENGL 2640. British Literature II

3 Credits (3)

This course offers a study of British literature from the 18th century to the present. This survey covers specific literary works—essays, short stories, novels, poems, and plays—as well as the social, cultural, and intellectual currents that influenced the literature.

ENGL 2650G. World Literature I

3 Credits (3)

In this course, students will read representative world masterpieces from ancient, medieval and Renaissance literature. Students will broaden their understanding of literature and their knowledge of other cultures through exploration of how literature represents individuals, ideas and customs of the world cultures. The course focuses strongly on examining the ways literature and culture intersect and define each other.

ENGL 2996. Special Topics

1-3 Credits

Emphasis on a literary and/or writing subject chosen for the semester. Repeatable for a unlimited credit under different subtitles.

ENGR-ENGINEERING (ENGR)

ENGR 100G. Introduction to Engineering 3 Credits (2+3P)

An introduction to the various engineering disciplines, the engineering approach to problem solving, and the design process. Projects emphasize the importance of teamwork, written & oral communication skills, as well as ethical responsibilities. May be repeated up to 3 credits.

Prerequisite(s)/Corequisite(s): MATH 1220G or above.

ENGR 100GH. Introduction to Engineering Honors 3 Credits (2+3P)

An introduction to the various engineering disciplines, the engineering approach to problem solving, and the design process. Projects emphasize the importance of teamwork, written & oral communication skills, as well as ethical responsibilities. May be repeated up to 3 credits. Crosslisted with: ENGR 100.

Prerequisite(s)/Corequisite(s): MATH 1220G or above.

ENGR 110. Introduction to Engineering Design 3 Credits (2+3P)

Sketching and orthographic projection. Covers detail and assembly working drawings, dimensioning, tolerance specification, and design project

ENGR 111. Mathematics for Engineering Applications 3 Credits (3)

An introduction to engineering mathematics and basic programming skills needed to perform elementary data manipulation and analysis. Consent of Instructor required.

Prerequisite(s)/Corequisite(s): MATH 1250G. Prerequisite(s): MATH 1220G.

ENGR 198. Special Topics in Engineering

1-3 Credits

Directed individual study of topics in engineering. Written reports covering work required. May be repeated for a maximum of 6 credits. Restricted to engineering majors. Graded S/U.

Prerequisite: consent of academic dean.

ENGR 233. Engineering Mechanics I

3 Credits (3)

Engineering mechanics using vector methods. Force systems, resultants, equilibrium, distributed forces, area moments, and friction.

Prerequisite(s)/Corequisite(s): PHYS 1310G. Prerequisite(s):

MATH 1521G or MATH 1521H.

ENGR 234. Engineering Mechanics II

3 Credits (3)

Kinetics of particles, kinematics and kinetics rigid bodies, systems of particles, energy and momentum principles, and kinetics of rigid bodies in three dimensions.

Prerequisite(s)/Corequisite(s): MATH 2530G. Prerequisite(s): M E 236, C E 233, or ENGR 233.

ENTR-ENTREPRENEURSHIP

ENTR 1110. Entrepreneurship

3 Credits (3)

Introduces students to the concept of entrepreneurship and to the process of business startups.

Prerequisite(s): BUSA 1110.

ENVS-ENVIRONMENTAL SCIENCE

ENVS 1110G. Environmental Science I 4 Credits (3+2P)

Introduction to environmental science as related to the protection, remediation, and sustainability of land, air, water, and food resources. Emphasis on the use of the scientific method and critical thinking skills in understanding environmental issues.

ENVS 2111. Environmental Engineering and Science 3 Credits (3)

Principles in environmental engineering and science: physical chemical systems and biological processes as applied to pollution control.

Restricted to: Main campus, Alamogordo campus, Grants campus,
Carlsbad campus. Crosslisted with: C E 256. Prerequisite(s): CHEM 1215G and MATH 1511G or higher

ENVS 2111L. Environmental Science Laboratory 1 Credit (1)

Laboratory experiments associated with the material presented in ENVS 2111. Same as C E 256 L.

Corequisite(s): ENVS 2111.

EPWS-ETMLGY/PLNT PTHLGY/WD SCI (EPWS)

EPWS 1110. Applied Biology

3 Credits (3)

Introduction to applied biology and ecology focusing on insects, plants and pathogens in natural areas, crops and urban settings. EPWS 1110L is strongly recommended to take in the same semester. May be repeated up to 3 credits. Restricted to Las Cruces campus only.

EPWS 1110L. Applied Biology Lab 1 Credit (1)

Study of applied biology and ecology of insects, plants and pathogens in natural areas, crops, and urban settings. EPWS 1110 strongly recommended to take in the same semester. May be repeated up to 1 credits. Restricted to Las Cruces campus only.

EPWS 2996. Special Topics

1-4 Credits

Specific subjects and credits to be announced in the Schedule of Classes. Maximum of 4 credits per semester and a grand total of 9 credits.

FCSC-FAMILY AND CONSUMER SCIENCES

FCSC 2250. Overview of Family and Consumer Sciences Teaching 3 Credits (3)

Overview of planning and teaching skills. Supervised experiences in observing and directing the learning of secondary family and consumer sciences students. Philosophy and history of the profession.

FCSC 2330. Housing and Interior Design

3 Credits (3)

Investigation of types of housing and factors impacting housing decisions for families. Selection, planning, and arrangement of interior components of homes to meet the needs of the family. Restricted to Las Cruces campus only.

FCST-FAMILY AND CHILD STUDIES

FCST 1130. Interpersonal Skills in Intimate Relationships 3 Credits (3)

Developing social skills within friendships, dating relationships, marriage, parenting, and families. May be repeated up to 3 credits. Restricted to Las Cruces and Dona Ana campuses.

FCST 2110. Infancy and Early Childhood in the Family 3 Credits (3)

Research and theory relevant to prenatal development and the physical, mental, and socio-emotional development of the child from birth to age five. Attitudes, knowledge, and skills needed for working with young children and their families. Restricted to Las Cruces campus only.

FCST 2120. Middle Childhood Development in the Family 3 Credits (3)

Research and theory relevant to the physical, mental, social, and emotional development of the child from age five to age twelve. Attitudes, knowledge, and skills related to working with school-age children in the family system. Observation in a variety of settings may be required. Restricted to Las Cruces campus only.

FCST 2135. Adolescent Development and the Family 3 Credits (3)

Research and theory relevant to the physical, mental, social, and emotional development of the children ages 12 to 18. Attitudes, knowledge, and skills related to working with adolescents in the family system. Observation in a variety of settings may be required. Restricted to Las Cruces campus only.

FCST 2140. Adult Development and Aging 3 Credits (3)

Research and theory related to the physical, mental, social, and emotional development of older adults. Attitudes, knowledge, and skills related to working with older adults in the family system, including normative, and nonnormative transitions. Restricted to Las Cruces campus only.

FDMA-FILM & DIGITAL MEDIA ARTS

FDMA 1110. Film History

3 Credits (3)

This course surveys the history of cinema -investigating the process by which the original "cinema of attractions" evolved into a globally dominant form of visual storytelling. We will explore the development of cinema both as an art form and as an industry, and consider the technological, economic, cultural factors, and key international movements that shape it.

FDMA 1120. Desktop Publishing 3 Credits (2+2P)

This course is designed to teach introductory skills for designing and creating publications and presentations with layout software. The course will focus on graphics and typographic design, fonts, and other skills for print and web publishing.

FDMA 1210. Digital Video Production I 3 Credits (2+4P)

An introduction to digital video production. Students learn camera operation, lights and audio equipment. Hands-on production is completed in the studio and on location.

FDMA 1220. Introduction to Digital Video Editing 3 Credits (3)

In this course, students learn the basics of the post-production process for non-linear video editing. Students work with multiple video formats and create short movies for multiple distribution platforms. Skills include media management and professional terminology.

Prerequisite(s)/Corequisite(s): FDMA 2382.

FDMA 1260. Introduction to Digital Media 1-3 Credits (1-3)

Explores concepts of how text, graphics, sound, images and video come together in a digital media program and researching new trends and current issues related to media applications and design. Students will be involved in teamwork, communication and workplace interaction simulation. May be repeated up to 12 credits. Restricted to Community Colleges campuses only.

FDMA 1360. Web Design I 3 Credits (2+2P)

This course provides an introduction to web development techniques, theory, and design. Students will learn HTML, CSS application, and strategies for effective site navigation and design, along with industry standard web editing software to develop various websites. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): ARTS 1520 OR FDMA 1515.

FDMA 1410. Audio Production I 3 Credits (2+2P)

Students will learn about and apply essential tools and techniques in analog and digital audio production. Topics include acoustic science, microphones, recording and mixing techniques, analog and digital audio hardware and software, including, multi-track, computer-based recording and editing systems. Restricted to: Community Colleges only.

Prerequisite(s): FDMA 1210 and FDMA 2410.

FDMA 1415. Principles of Sound 3 Credits (2+2P)

The creation of a professional quality original media soundtrack is possible for relatively low production/post production cost. This class is designed to give the student and overview of creating sound for a variety of digital media. Topics include acoustic principles, sound design, audio hardware, recording techniques; and editing, processing, and multi-track mixing, using software applications. Restricted to: Community Colleges only.

Prerequisite(s)/Corequisite(s): FDMA 1220.

FDMA 1510. Introduction to 3D Animation 3 Credits (3)

This course provides an overview of 3D animation production processes. Students will be introduced to basic story development and the creation of computer-generated assets and cinematic sequences. The course will survey specialty areas of digital animation and various software and techniques applied in entertainment and information media. Students will review and critique other's animation, as well as plan and produce original animation for review by classmates and as part of a CGI demo reel.

Prerequisite(s): FDMA 2382 or FDMA 2381 or consent of instructor.

FDMA 1515. Introduction to Digital Image Editing - Photoshop 3 Credits (2+2P)

In this course, students will learn how to use the tools in Adobe Photoshop to create new images and edit existing images. Tools used will include selections, layers, and adjustments, among other pixel editing tools. Basic composition and output will be emphasized in all projects. May be repeated for a maximum of 6 credits.

FDMA 1531. Evolution of Electronic Games 3 Credits (2+2P)

Focus on the evolution of video games and how they have shaped mainstream entertainment. May be repeated up to 6 credits.

FDMA 1535. Introduction to Illustrator 3 Credits (2+2P)

Students receive instruction on vector graphics creation using vector illustration software. The students will create professional-quality artwork for print publishing and multimedia graphics. Instruction includes creating and manipulating basic shapes, drawing with the pen tool, using various brushes, working with type and preparing graphics for web, print, and digital publication. May be repeated for a maximum of 6 credits.

FDMA 1536. Advanced Computer Illustration 3 Credits (2+2P)

Advanced techniques in 2D vector drawing and fundamentals of 3D illustration for use in print, web, and multimedia applications. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): FDMA 1535.

FDMA 1545. Introduction to Photography & Digital Imaging 3 Credits (2+2P)

This course is a study of the principles and techniques of photography using digital equipment, and discusses how digital cameras, imaging editing, and technology have changed the world of photography. Students will learn about studies in resolution, lighting, software, editing, printing, and web applications. They will gain fundamental knowledge in the rapidly expanding technology of photography and imaging, and be able to incorporate the knowledge into all areas of digital graphics.

FDMA 1555. Introduction to the Creative Media Industry 3 Credits (3)

This class is an introductory course for students who are beginning their understanding of Media and how it affects them and our society. It offers a broad-stroked view of the entire industry including Marketing, Production, History, Jobs, Design, Architecture, New Media Literacy, and industry standards. Students will listen to experts in the field, get involved in open discussions about the industry and use new information to complete hands-on individual & group assignments.

FDMA 1630. Principles of Design 3 Credits (2+2P)

This course will explore how we see and use visuals to communicate information. Students will develop critical thinking skills in applying concepts of basic design principles. Students will apply the concepts with hands-on and analysis assignments. These concepts will then be applied to design for advertising, print, digital media, and web design. The business of design will also be covered with emphasis on client relations and networking Restricted to: Community Colleges only. Prerequisite(s): FDMA 1535

FDMA 1710. 2D Animation

3 Credits (2+2P)

Concepts and techniques in storyboarding and creating interactive 2D animations for web, multimedia and video.

Prerequisite(s): FDMA 1535.

FDMA 1715. 2-D COMPOSING & FX

3 Credits (3)

The purpose of this course is to familiarize students with the powerful compositing and special effects tools of Adobe After Effects for 2D, traditional animation. Students will learn how to assemble an existing unrendered animation into a final piece with advanced 3D lighting, spacing, and digital effects so that it can achieve a dynamic, professionally rendered look. Restricted to Las Cruces campus only.

FDMA 1720. 3-D Character Design

3 Credits (2+4P)

Focus on designing a character and then taking that design and building it in 3D using intermediate modeling techniques. May be repeated for a maximum of 6 credits.

Prerequisite(s): FDMA 1510 or FDMA 2530.

FDMA 1996. Selected Topics

1-4 Credits (1-4)

Specific titles to be announced in the Schedule of Classes. May be repeated for a maximum of 18 credits. Restricted to Community Colleges campuses only.

FDMA 2111. Environmental Scene Design

3 Credits (2+4P)

Modeling design techniques used to create environments and scenes for use in animated films and games. Investigation of both natural and architectural environments to be recreated in the virtual world.

Prerequisite(s): FDMA 1510 or FDMA 2530.

FDMA 2120. Film Crew I/ Introduction to Film and Media Workflow 9 Credits (9)

An introduction to the film industry. This class teaches film production processes, film crew hierarchy, film production set-safety and etiquette and provides hands-on training in industry standard film production equipment. Students complete the semester by participating as a below-the-line crew member on a short film. Restricted to: Community Colleges only.

FDMA 2125. Film Crew II

9 Credits (9)

The second course designed to train students to become working members of film crews. It will be taught by working film professionals. Content will be lecture and hands-on. Students complete the semester by working as part of an actual film crew as below-the-line and above-the-line crew members. Restricted to: Community Colleges only.

Prerequisite(s): FDMA 2120.

FDMA 2144. Pre-production Management

3 Credits (2+2P)

Pre-production planning paperwork breakdowns, budgeting, and scheduling; taking a project from start to finish from a producers standpoint.

Prerequisite(s): FDMA 1210.

FDMA 2150. Desktop Publishing II

3 Credits (2+2P)

This class will enhance and build upon student layout/design skills developed in the Introduction to Desktop Publishing course, incorporating intermediate to advanced concepts in typography and layout design. Upon completion of this course, students will be able to use page layout software to prepare a variety of documents for presentation and critique, including newsletters, instructional flyers, and other complex design/typographic pieces May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): FDMA 1120.

FDMA 2210. Digital Video Production II

3 Credits (2+2P)

Advanced techniques of the tools and application of professional film making. May be repeated for a maximum of 6 credits.

Prerequisite: FDMA 1210.

FDMA 2235. Music Production Master

3 Credits (2+2P)

Advanced digital audio post production and recording techniques using current entertainment industry-standard software and hardware. Restricted to: Community Colleges only.

Prerequisite(s): FDMA 1415 and FDMA 2410.

FDMA 2241. Advanced Camera Techniques

3 Credits (2+2P)

Professional camera techniques and training for electronic news gathering and studio filmmaking. Utilizes high-end handheld shooting techniques, cranes, dollies, and steadicam training. May be repeated for a maximum of 6 credits.

Prerequisite(s): FDMA 1210.

FDMA 2285. Digital Video Production and Editing II 3 Credits (2+2P)

Advanced features of digital video, audio/music, and titling production software. Included are color correction, vector scopes, motion effects, and advanced editing techniques used by filmmakers. Restricted to Community Colleges campuses only. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): FDMA 1220.

FDMA 2287. Digital Design Studio

1-3 Credits

A design studio environment in which students obtain real-world experience while providing service to college and non-profit associations with faculty supervision using a variety of media. Can be used with permission to fulfill cooperative requirement. May be repeated for a maximum of 6 credits.

Prerequisite(s): FDMA 1630 or ARTS 1712.

FDMA 2310. History of Cinema I

3 Credits (3)

This course surveys the history of cinema - investigating the process by which the original "cinema of attractions" evolved into a globally dominant form of visual storytelling. We will explore the development of cinema both as an art form and as an industry, and consider the technological, economic, cultural factors, as well as many key international movements that helped shape it. Restricted to: G-CMI, DFM, ANVE majors.

FDMA 2311. History of Animation

3 Credits (3)

Explores the history of Animation as an art form and industry through readings, screenings, lecture and periodic guest speakers. Restricted to: G-CMI, ANVE, DFM majors. Restricted to Las Cruces campus only.

FDMA 2312. History of Media Design

3 Credits (3)

An introduction to the principles of design history and theory within a chronological framework of historical and emerging media.

FDMA 2325. Advanced Photoshop 3 Credits (2+2P)

This course expands on the Photoshop skill set to develop proficiency with selections, masking, channels, filters, color correction, painting tools, vector integration, video, special effects, and compositing techniques. The focus is on the core image-editing tools of Photoshop that can be universally applied to photography, print, film or the web. The material is covered in production-oriented projects and students develop work suitable for portfolios. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): FDMA 1515.

FDMA 2326. Digital Photography and Imaging II 3 Credits (2+2P)

Provide understanding and skills needed for advanced digital capture, editing, optimizing and manipulating photographic images for print, web and multimedia applications. The course will prepare students to make more advanced technical and more refined aesthetic decisions relative to specific photographic applications. Restricted to: Alamogordo campus, Carlsbad campus, Dona Ana campus.

Prerequisite(s): FDMA 1545. FDMA 2360. Web Design II

3 Credits (2+2P)

In this course, students will refine their skills in coding and web graphic design as well as be introduced to methods in constructing sites that adhere to the standards of responsive web design. Students will expand their knowledge of HTML and CSS using a code editor, and they will both analyze existing websites and also construct an interactive website. May be repeated up to 6 credits. Restricted to Community Colleges campuses

Prerequisite(s): FDMA 1360.

FDMA 2365. Web Design for Small Business 3 Credits (2+2P)

Technology and techniques for designing and building a web presence for small business. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): FDMA 1360.

FDMA 2370. Advanced Web Techniques 3 Credits (2+2P)

Creating and managing complex web sites using advanced techniques and tools. May be repeated for a maximum of 6 credits. Restricted to: Community Colleges only.

Prerequisite(s): FDMA 1515 and FDMA 2360.

FDMA 2381. Storyboarding

3 Credits (3)

Examines effective writing principles to create storyboards that communicate the overall picture of a project, timing, scene complexity, emotion and resource requirements. Further, the purpose of this course is to introduce students to the principles of visual storytelling-in film--through the use of the storyboard. In other words, to show how storyboards are critical 'architectural component' of the filmmaking process, used as a blueprint (or guide) to communicate the complex elemnts of a film story. Crosslisted with: ENGL 2381. Restricted to: DFM,ANVE, G-CMI majors. Restricted to Las Cruces campus only.

FDMA 2382. Principles of Story Across the Media 3 Credits (3)

The purpose of this course is to help students understand the basic elements of narrative structure (e.g. character, dramatic conflict, theme, etc.) and how these elements may be used effectively in media expression. Crosslisted with: ENGL 2382. Restricted to: G-CMI, DFM, ANVE majors. Restricted to Las Cruces campus only.

FDMA 2410. Audio Production II 3 Credits (2+2P)

Students will use skills developed in the Audio Production I course to produce audio projects utilizing a variety of analog and digital audio hardware and software, including continued use of multi-track, computerbased recording and editing systems, as well as exploring more advanced audio techniques and concepts. Restricted to: Community Colleges only.

FDMA 2510. Introduction to Sound Design for Film 3 Credits (3)

This couse is an introduction to the principles, techniques and applications of sound design and film scoring. Students learn how sound affects storytelling in a film, examine the role of sound from the script to screen, and the professional process of creating a soundtrack. Students learn how to use sound equipment in a production environment and execute basic techniques used to develop a soundtrack. Crosslisted with: FDMA 1415.

Prerequisite(s)/Corequisite(s): FDMA 2382. Restricted to: DFM,ANVE majors. Restricted to Las Cruces campus only.

FDMA 2520. Introduction to Cinematography 3 Credits (3)

The Director of Photography (or Cinematographer), in close collaboration with the Director and Production Designer, helps determine the look of a film. This course is designed to intorduce students to the technical and aesthetic fundamentals of creating, developing, and collaborating on the visual elements of storytelling, using camera framing, lensing, and lighting fundamentals such as shadows, light and color. May be repeated up to 6 credits. only. Prerequisite(s)/Corequisite(s): FDMA 2382 (Las Cruces Campus) or FDMA 1210 (Community College Campus(es)

FDMA 2530. Introduction to 3D Modeling 3 Credits (3)

This course will introduce 3D modeling methods and current practices. Students will learn preliminary and detailed modeling techniques using industry standard software. Methods will emphasize formal and functional aspects of modeling as they apply to mechanical, organic, and sculpted topology for application in animation, games, and information media. May be repeated for a maximum of 6 credits.

FDMA 2535. Digital Illustration

3 Credits (3)

Introductory course examining traditional artistic expressions and translating visual art experiences into a digital art medium to enhance visual storytelling. Students acquire basic principles of drawing and painting through hands-on experience manipulating tonal value, composition, form development, light and shadow, color theory, rendering realism, and graphic design. Restricted to: DFM,ANVE majors. Restricted to Las Cruces campus only.

FDMA 2570. Creative Media Studio

3 Credits (2+2P)

A studio environment where students specialize in creating film-festival quality and portfolio-ready projects under the supervision of faculty. May be repeated for a maximum of 6 credits.

Prerequisite(s): FDMA 1210 and FDMA 1220 or FDMA 2530.

FDMA 2710. Beginning 2-D Animation

3 Credits (3)

Students will learn the basics of digital 2D animation by working through a variety of exercises, creating an original storyboard, and animating five or more shots utilizing industry standard software. Restricted to: DFM,ANVE majors. Restricted to Las Cruces campus only.

FDMA 2715. Special Effects

3 Credits (2+4P)

Creating advanced virtual special effects for both rigid and soft bodies. Using MEL, dynamic principles, mixing nodes, and advanced particle systems. How to drive particles over surfaces, add texture to flow, create surface tensions, and use collision events to drive texture. Study of integrating computer-generated images with real-life video and audio.

Prerequisite(s): FDMA 2530 or FDMA 2765.

FDMA 2720. 3-D Animation

3 Credits (3)

Overview of the essentials and principles of 3D animation; creative methods for using industry standard tools to produce the illusion of movement for storytelling. Topics include, keyframe and curve animation, kinematics, cycle animation, camera animation, deformers, and constraints.

Prerequisite(s): FDMA 1510, FDMA 2710 or consent of instructor.

FDMA 2725. Rigging for 3D Animation

3 Credits (3)

This course will introduce principles and practices of current 3D animation rigging. Students will develop fundamental methods necessary to create character rigs. Students will learn aesthetic, technical, and optimization concepts as they apply to organic and mechanical designs. Topics will include: hierarchies, constraints, deformation rigging, skeleton creation, skinning, forward and inverse kinematics, controls, body and facial rigging. Restricted to: DFM, ANVE majors.

Prerequisite(s): FDMA 1510.

FDMA 2730. Advanced Character Animation

3 Credits (2+2P)

Focus on complex rigging techniques as well as utilizing advanced animation functions to blend multiple animations into complex animations. May be repeated for a maximum of 6 credits. Restricted to: Community Colleges only.

Prerequisite(s): FDMA 2530.

FDMA 2735. Advanced 3D Animation Workshop A 3 Credits (2+4P)

Program capstone. Students will utilize the skills learned in the program to produce their final animation. Group integrated projects are strongly recommended to emulate a real-work animation studio environment. May be repeated for a maximum of 9 credits. Consent of instructor required. **Corequisite(s):** FDMA 2740.

FDMA 2740. Advanced 3D Animation Workshop B 3 Credits (2+4P)

Program capstone. Students will utilize the skills learned in the program to produce their final animation. Group integrated projects are strongly recommended to emulate a real-work animation studio environment. May be repeated for a maximum of 9 credits. Consent of instructor is required. **Corequisite(s):** FDMA 2735.

FDMA 2745. Light, Shade, Render

3 Credits (3)

This course will explore the theory and practice of 3D lighting and rendering methodologies. Techniques covered will implement cameras, lighting sources, textures, surface-mapping and algorithmic rendering to produce stylized and photo realistic images. Topics covered will include direct and indirect lighting, shaders that simulate physical substances and effects, rendering multiple passes and simulating physical lens effects. Restricted to: DFM,ANVE majors. Restricted to Las Cruces campus only.

Prerequisite(s): FDMA 1510, FDMA 2530, or Consent of Instructor.

FDMA 2750. Digital Sculpting

3 Credits (3)

Introduce students to the 3D Sculpting programs which are the industry standard sculpting programs. Students will learn how to create complex high polygon sculpts and normal maps and transfer the models into 3D studio Max and Autodesk Maya. May be repeated up to 6 credits. Restricted to: Community Colleges only.

Prerequisite(s): FDMA 2530.

FDMA 2755. Drawing for Animation

3 Credits (3)

Introductory study of the human and animal form in relation to animation. Students learn fundamentals and exaggeration of the figure, as related to proportion, rhythm, mechanics, and motion. Areas of focus are: basic form, proportion, shape, contour, gesture, anatomy, portraiture, perspective, clothing effects and drawing from observation. Restricted to: CMT,DFM,ANVE majors.

FDMA 2770. Critical Game Studies

3 Credits (2+2P)

Focus on creating a complete design document utilizing techniques and standards used in the industry today. May be repeated for up to 6 credits. Restricted to: Community Colleges only.

FDMA 2775. Game Tools and Techniques

3 Credits (2+2P)

Focus on the different engines and gaming technologies that power the games of today. May be repeated for a maximum of 6 credits.

Prerequisite(s): FDMA 2770.

FDMA 2785. Level Design Concepts

3 Credits (2+2P)

Focus on the design and creation of video game levels. Dealing with the challenges and pitfalls of different video game genres. May be repeated for a maximum of 6 credits. Prerequisite(s): FDMA 2770

FDMA 2993. Workshops (Advanced Photogrophy-Subtitle) 1 Credit (1)

This is a series of 1-credit workshops offering specialized and intense advanced skill training and upgrading applications of photography for commercial purposes and training in photographic skills and styles presented by a variety of professional lecturers. May be repeated up to 7 credits. Restricted to Community Colleges only.

Prerequisite(s): FDMA 1545.

FDMA 2994. Portfolio Design & Development

1-3 Credits

Personalized design and creation of the student's professional portfolio including hard-copy, demo reel, and online. May be repeated up to 6 credits. Consent of Instructor required. Restricted to Community Colleges campuses only.

FDMA 2995. Film Crew Cooperative Experience 3-6 Credits (3-6)

Industry production experience in specific craft areas for film crew technicians who have successfully completed two semesters of FTTP. Restricted to: Dona Ana campus, Carlsbad campus.

Prerequisite(s): FDMA 2125.

FDMA 2996. Special Topics

1-4 Credits

Specific topics to be announced in the Schedule of Classes. May be repeated for a maximum of 18 credits.

FDMA 2997. Independent Study

1-3 Credits

Individual studies directed by consenting faculty with prior approval of department head. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): Minimum GPA of 3.0 and sophomore standing.

FDMA 2998. Internship

1-3 Credits

Work experience that directly relates to a student's major field of study that provides the student an opportunity to explore career paths and apply knowledge and theory learned in the classroom. Internships may be paid or unpaid. Students are supervised/evaluated by both the employer and the instructor. May be repeated up to 9 credits. Consent of Instructor required. Graded: S/U Grading (S/U, Audit). Restricted to Community Colleges campuses only. Consent of instructor required.

FIRE-FIRE INVESTIGATION (FIRE)

FIRE 101. Firefighter I

8 Credits (6+6P)

This course will train the student to the Firefighter I level as outlined in NFPA 1001, Standard for Firefighter Professional Qualifications. Firefighter I certification issued through the New Mexico Firefighter's Training Academy upon successful completion (IFSAC accredited). May be repeated up to 8 credits. Consent of Instructor required.

Prerequisite(s)/Corequisite(s): OEEM 103 and FIRE 115. Restricted to Community Colleges campuses only.

FIRE 102. Fire Fighter I and II 12 Credits (12)

This course will train the student as outlined in NFPA 1001, Fire Fighter Professional Qualifications. Firefighter I & II Certification issued through the New Mexico Firefighter's Training Academy (NMFTA) upon successful completion [International Fire Service Accreditation Congress (IFSAC) & Pro Board accredited]. Consent of Instructor required.

Prerequisite(s)/Corequisite(s): FIRE 115, FIRE 252, OEEM 103. Restricted to Dona Ana campus only.

FIRE 104. Firefighter II 8 Credits (6+6P)

This course will train the student to the Firefighter II level as outlined in NFPA 1001, Standard for Firefighter Professional Qualifications. Firefighter II certification issued through the New Mexico Firefighter's Training Academy upon successful completion (IFSAC accredited). May be repeated up to 8 credits. Consent of Instructor required.

Prerequisite(s)/Corequisite(s): FIRE 252. Prerequisite(s): FIRE 101. Restricted to Community Colleges campuses only.

FIRE 112. Principles of Emergency Services 3 Credits (3)

This course provides an overview to fire protection and emergency services including career opportunities in fire protection and related fields. The organization and function of public and private fire protection services is studied including how fire departments fit as part of local government. An overview of laws and regulations affecting the fire service is explored along with specific fire protection functions and responsibilities including basic fire chemistry and physics, introduction to fire strategy and tactics and life safety initiatives. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

FIRE 114. Fire Behavior and Combustion 3 Credits (3)

This course explores the theories and fundamentals of how and why fires start, spread, and are controlled. Restricted to: Community colleges only.

FIRE 115. Hazardous Materials Awareness and Operations 3 Credits (3)

This course will train the student to the Hazardous Materials Awareness and Operations level as outlined in NFPA 472, Standard for Competence of Responders to Hazardous Materials/Weapons of Mass Destruction Incidents and OSHA 29 CFR 1910.120. Hazardous Materials Awareness and Operations certification issued through the New Mexico Firefighter's Training Academy upon successful completion (IFSAC accredited). May be repeated up to 3 credits. Restricted to Community Colleges campuses only

FIRE 120. Fire Protection Hydraulics and Water Supply 3 Credits (3)

This course will train students on skill requirements for becoming a safe and effective fire apparatus driver/operator. The focus will be on pump operation, construction, testing, and mathematical calculation required for effective pump operation and fire control. Responsibilities of the driver/operator will be taught and assessed consistent with applicable NFPA standards and the New Mexico Firefighters' Training Academy (NMFTA) guidelines. Students who meet all course requirements will be eligible for International Fire Service Accreditation Congress (IFSAC) certification through the NMFTA. Consent of Instructor required. Restricted to Community Colleges campuses

Prerequisite(s)/Corequisite(s): FIRE 128.

FIRE 126. Fire Prevention 3 Credits (3)

This course will educate students about the principles and techniques of fire prevention and life-safety inspection and code compliance in accordance to NFPA 1031, Standard for Professional Qualifications for Fire Inspector and Plan Examiner, Level I. Students who meet all course requirements will be eligible for International Fire Service Accreditation Congress (IFSAC) certification through the New Mexico Firefighters' Training Academy (NMFTA). Restricted to Community Colleges campuses only.

FIRE 128. Apparatus and Equipment 2 Credits (2)

The course will train students on attitude and skill requirements for becoming a safe and effective fire apparatus driver/operator. The focus will be on apparatus inspection, operation, maintenance, and specification. Responsibilities of the driver/operator will be taught and assessed consistent with applicable NFPA standards and the New Mexico Firefighters' Training Academy (NMFTA) guidelines. Students pursuing certification must posses a current and valid New Mexico driver's license. Students who meet all course requirements will be eligible for International Fire Service Accreditation Congress (IFSAC) certification through the NMFTA. Restricted to Community Colleges campuses only.

FIRE 130. Principles of Fire and Emergency Services Safety and Survival 3 Credits (3)

This course introduces the basic principles and history related to the national firefighter life safety initiatives, focusing on the need for cultural and behavior change throughout the emergency services. Consent of instructor required. Restricted to: Community colleges only.

FIRE 200. Special Topics 1-12 Credits (1-12)

Specific subjects to be announced in the Schedule of Classes. Course may be repeated for credit as topics change. May be repeated up to 12 credits. Consent of Instructor required. Restricted to Community Colleges campuses only.

FIRE 201. Independent Study 1-3 Credits

Research on an approved topic to meet graduation requirements. Meets or exceeds NFPA standards. May be repeated for total of 9 credits.

Prerequisite: consent of instructor.

FIRE 202. Wildland Fire Control

1-3 Credits

Focuses on factors affecting wildland fire control and prevention, fire behavior, control techniques, command structure and other operations including Standards for Survival I-100, S-130 and S-190 Meets or exceeds NWCG Training Curriculum and NFPA 1051 standards. Restricted to: Community Colleges Only.

FIRE 203. Fire and Emergency Services Administration 3 Credits (3)

This course will provide students entry-level training in company operations and administration at the first-line supervisory level. The student will learn how to effectively manage human resources and community/public relations. Students will learn about fire department organization and administration; including budgets, reports, and planning. Students will learn the process involved in fire inspection, investigation, public education, emergency service delivery, and safety, per NFPA Standard 1021, Fire Officer Professional Qualifications. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

FIRE 210. Building Construction for Fire Protection 3 Credits (3)

This course provides the components of building construction related to firefighter and life safety. The elements of construction and design of structures are shown to be key factors when inspecting buildings, preplanning fire operations, and operating at emergencies. Restricted to: Community colleges only.

FIRE 220. Cooperative Experience I

1-3 Credits

Supervised cooperative work program. Student is employed in an approved occupation and rated by the employer and instructor. May be repeated for a maximum of 6 credits. Graded S/U.

Prerequisite: consent of instructor.

FIRE 221. Cooperative Experience II

3 Credits (3)

Apply advanced firefighting knowledge and skills while working with fire protection agencies. Meets or exceeds NFPA standards. Consent of instructor required. Graded: S/U. Restricted to: Community Colleges only. **Prerequisite(s)**: FIRE 220.

FIRE 223. Fire Investigations I

3 Credits (3)

This course meets the requirements set forth in NFPA 1033 Professional Qualifications for Fire Investigator. This course will give a comprehensive understanding of the principles of fire investigation, scene examination, documentation, evidence collection/preservation, interview techniques, and post-incident investigations. Student who meet all course requirements are eligible for International Fire Service Accreditation Congress (IFSAC) certification through New Mexico Firefighters' Training Academy (NMFTA). Restricted to Community Colleges campuses only.

FIRE 224. Strategy and Tactics

3 Credits (3)

Provides an in-depth analysis of the principles of fire control through utilization of personnel, equipment and extinguishing agents on the fire ground. Covers the development of systematic action plans for emergency situations. Includes recognizing and prioritizing emergency scene needs and developing related strategies, tactics and contingencies. Educates students on how resources should be deployed to implement those plans. Restricted to Community Colleges campuses only

FIRE 225. Fire Protection Systems 3 Credits (3)

This course provides information relating to the features and design and operation of fire alarm systems, water-based fire suppression systems, special hazard fire suppression systems, water supply for fire protection and portable fire extinguishers. Restricted to: Community colleges only.

FIRE 230. Fire Service Instructor

3 Credits (3)

Provides the instructor candidate with methods and techniques of instruction including oral communications, preparing lesson plans, writing performance objectives, use of audio and other training aids, and the selection, evaluation and preparation of performance tests. Meets and exceeds NFPA 1041 Level I standards. Restricted to: Community Colleges only.

FIRE 232. Firefighter Internship

3 Credits (3)

Application of knowledge, skills and abilities in a fire service department, as a firefighter intern and integrated member of a fire affiliated agency. Restricted to majors.

Prerequisites: FIRE 101, FIRE 102, FIRE 115, FIRE 202 and EMT-B and consent of instructor.

FIRE 233. Practical Approach to Terrorism 3 Credits (3)

Gives responder an overall safety approach in recognizing and responding to incidents involving terrorism. Presents an overview in types of harm, explosive weapons, chemical weapons, biological weapons and radiological weapons. Restricted to: Community Colleges only. Crosslisted with: LAWE 233

FIRE 252. Vehicle Extrication 2 Credits (1+2P)

This course will train the student to the Vehicle & Machinery Extrication level I as outlined in NFPA 1006, Standard for Technical Rescuer Professional Qualifications. Vehicle & Machinery Extrication certification issued through the New Mexico Firefighter's Training Academy upon successful completion (IFSAC accredited). May be repeated up to 2 credits. Restricted to Community Colleges campuses only.

FREN-FRENCH (FREN)

FREN 1110. French I

4 Credits (4)

Intended for students with no previous exposure to French, this course develops basic listening, speaking, reading, and writing skills aiming toward the ACTFL novice-high level. This is an introductory course designed to teach the student to communicate in French in everyday situations and to develop an understanding of French and Francophone cultures through the identification of cultural products and practices, of cultural perspectives, and the ability to function at a survival level in an authentic cultural content. This course will also develop the student's sense of personal and social responsibility through the identification of social issues.

FREN 1120. French II

4 Credits (4)

A continuation of French 1, students will develop a broader foundation in skills gained during the first semester, including understanding, speaking, reading and writing French aiming toward the ACTFL intermediate-low level. This course is designed to increase student fluency in French as applied to everyday situations. Students will also learn to recognize and understand various French and Francophone products, practices, and perspectives, identifying common cultural patterns, describing basic cultural viewpoints, and further developing their sense of personal and social responsibility through the investigation of cultural issues.

Prerequisite(s): C or better in FREN 1110.

FREN 2110. French III

3 Credits (3)

In this third semester course, students will continue to develop a broader foundation in skills gained during the first year, including understanding, speaking, reading and writing French aiming toward the ACTFL intermediate-mid level. This course is designed to teach the student to communicate in a more sustained way in areas of personal interest and in everyday situations. Students will engage in and analyze various French and Francophone products, practices, and perspectives, as well as continue to develop their sense of personal and social responsibility through comparison and contrast of cultural perspectives.

Prerequisite(s): C or better in FREN 1120.

FREN 2120. French IV

3 Credits (3)

In this fourth semester course, students will continue to broaden and refine skills gained during previous semesters, including understanding, speaking, reading and writing French aiming at the ACTFL intermediate-high level. This course is designed to teach the student to communicate in a more sustained way in situations that go beyond the everyday. Students will evaluate various French and Francophone products, practices, and create ways to demonstrate their sense of personal and social responsibility through participation in cultural interaction.

Prerequisite(s): C or better in FREN 2110.

FSTE-FOOD SCIENCE & TECHNOLOGY (FSTE)

FSTE 1110G. Introduction to Food Science and Technology 4 Credits (3+2P)

An introductory course in the scientific study of the nature and composition of foods and their behavior during all aspects of their conversion from raw materials to consumer food products.

FSTE 1120. ACES in the Hole Foods I

4 Credits (4)

Food production activities related to operation of ACES in the Hole Foods, a student-run food company that will give FSTE majors hands-on experience in all aspects of developing, producing and marketing food products Restricted to Las Cruces campus only.

Prerequisite(s): Students enrolled in this class must possess A Food Handler Card.

FSTE 2110G. Food Science I

4 Credits (3+2P)

The scientific study of the principles involved in the preparation and evaluation of foods. May be repeated up to 4 credits.

FSTE 2120. ACES in the Hole Foods II

4 Credits (8P)

Food production activities related to operation of ACES in the Hole Foods, a student-run food company that will give FSTE majors hands-on experience in all aspects of developing, producing and marketing food products. May be repeated up to 4 credits.

Prerequisite(s): FSTE 1120 and Have a Food Handler Card.

FSTE 2130G. Survey of Food and Agricultural Issues 3 Credits (3)

Survey of food and agricultural issues, including: geography of food production and consumption; human-agricultural-natural resource relations; agriculture in the United States and abroad; modern agribusiness; food safety, food, agriculture, and natural resources policy; ethical questions; role and impact of technology. Crosslisted with AEEC 2130G.

FSTE 2996. Special Topics

1-4 Credits

Specific topics and credits to be announced in the Schedule of Classes. Maximum of 4 credits per semester and a grand total of 9 credits.

FWCE-FISH, WILDLF, CONSERV ECOL (FWCE)

FWCE 1110G. Introduction to Natural Resources Management 4 Credits (3+2P)

This class covers historical and current issues affecting the management of renewable natural resources with an emphasis on water, soil, rangeland, forest, fish, and wildlife resources. An emphasis is placed on the scientific method and critical thinking. In the laboratory students collect and analyze field data on topics covered above and write up each unit as a laboratory report.

FWCE 1120. Contemporary Issues in Wildlife and Natural Resources Management

3 Credits (3)

Ecological, socioeconomic, and political issues surrounding the management of our natural resources with an emphasis on fish and wildlife resources.

FWCE 2110. Principles of Fish and Wildlife Management 3 Credits (3)

Basic principles of fish and wildlife management including history, ecology, economics, and policy. Emphasis on wildlife and fisheries. Uses an ecosystem approach integrating living and nonliving resources. Prerequisite(s): FWCE 1110G.

FYEX-FIRST YEAR EXPERIENCE

FYEX 1110. First-year Seminar

1-3 Credits

This course is designed to help students achieve greater success in college and in life. Students will learn many proven strategies for creating greater academic, professional, and personal success. Topics may include career exploration, time management, study and test-taking strategies to adapt to different learning environments, interpersonal relationships, wellness management, financial literacy, and campus and community resources.

FYEX 1112. The Freshman Year Experience

3 Credits (3)

An introduction to the university and its resources; emphasis on development of academic and personal skills that enable freshmen to become successful learners. Restricted to: Main campus only.

Prerequisite(s): Freshman Standing Only.

FYEX 1116. Managing Your Money

Principles and strategies for effective money management. Includes financial goal setting, both short and long term. Explores the relationship between career and income earning potential. Explores issues of credit and debt management and prevention of identity theft.

FYEX 1117. Financial Literacy Money Matters

2 Credits (2)

This course will cover a variety of financial literacy topics ranging from budgeting to student loan repayment. This course is designed to assist students in becoming more financially literate. Restricted to Las Cruces campus only.

FYEX 1130. Academic Skills for Mathematics

1-3 Credits (1-3)

Emphasis on study skills for success in math, up to the calculus level, tailored to meet individual student needs. Topics include test preparation strategies, efficient time management and practice methods, and introduction to and practice with learning software. Consent of instructor required.

FYEX 1131. Personal Learning Skills I

1-3 Credits

Individualized programs for self-improvement in skill areas necessary for academic success in the university environment. Each course to bear an appropriate subtitle. May be repeated up to 3 credits. Graded S/U.

FYEX 1132. Academic and Personal Effectiveness

2 Credits (2)

Learn academic self-analysis skills through the application of study and learning techniques to current course demands. Exposure to a variety of topics which enhance university and life-long learning.

FYEX 1133. Academic Reading and Study Skills

1-4 Credits

Introduction to and practice with strategies for effective reading and studying at the college level. Provides laboratory.

FYEX 1134. Speed Reading

Introduction to strategies and techniques for increasing reading rate and comprehension related to academic areas.

FYEX 1140. Career Exploration

1 Credit (1)

Survey of careers possible with community college associate degrees. Information on how to make a career choice.

FYEX 1141. Career Explorations and Planning

1 Credit (1)

This course is designed to increase the likelihood that individuals will successfully navigate the challenges they face when making college major and related career choices. Restricted to Las Cruces campus only.

FYEX 1160. Tutorial

1-3 Credits

Development of specific skills required for college courses, such as notetaking, listening, and test-taking. To be taken in conjunction with a regular designated college course.

FYEX 1170. NMSU Gospel Choir

1 Credit (1)

Students will gain performance experience and exposure to urban contemporary gospel music. Open to all majors. May be taken for unlimited credit. Restricted to: Main campus only.

FYEX 1995. Preparing for Cooperative Education & Internship 1 Credit (1)

The Cooperative Education Course provides students with a comprehensive overview of career-related topics designed to assist with securing Cooperative Education and Internship employment. Students learn about philosophies and approaches to resumes, cover letters, interviewing, job searching, networking, and professionalism. A primary focus of the course is on experiential learning where students have opportunities to practice and implement course concepts including interviewing, networking, job searching, and document creation. In addition to exploring topics related to Cooperative Education and Internship, the course is designed to provide students with tools and strategies for successfully navigating the transition from student to employee. Graded: S/U Grading (S/U, Audit). Restricted to Las Cruces campus only.

FYEX 1996. Special Topics

1-4 Credits

Covers specific study skills and critical thinking topics. Specific sub-titles to be listed in the Schedule of Classes. May be repeated for a maximum of 8 credits.

FYEX 2111. Critical Thinking Skills

3 Credits (3)

Introduction to critical thinking processes. Develops higher order thinking necessary to evaluate clearly, logically, and accurately one s academic and life experiences. Practical emphases on assertive thinking and perspectives. Prerequisite(s): CCDE 110 N

FYEX 2994. Prior Learning: Professional Portfolio 1-6 Credits

Creating a portfolio that outlines professional and educational experiences. Life skills and education learned through workplace training and non-traditional education experiences will be evaluated for consideration of awarding college credit. Students will draft a life history paper, prepare a professional resume, assemble supporting documentation and evidence in support of their petition to receive college credit for prior learning. Culminating activities will include an oral presentation of the portfolio contents. Graded S/U.

Prerequisite(s): CCDE 110 N or equivalent.

GENE-GENETICS (GENE)

GENE 1110. Experimental Systems in Genetics 1 Credit (1)

Survey of molecular, biochemical, organismal, and computer science based approaches to investigate how genes determine important traits. Historical development and topics of current interest will be discussed.

GEOG-GEOGRAPHY (GEOG)

GEOG 1110G. Physical Geography

4 Credits (3+3P)

This course introduces the physical elements of world geography through the study of climate and weather, vegetation, soils, plate tectonics, and the various types of landforms as well as the environmental cycles and the distributions of these components and their significance to humans.

GEOG 1120G. World Regional Geography

3 Credits (3)

Overview of the physical geography, natural resources, cultural landscapes, and current problems of the world's major regions. Students will also examine current events at a variety of geographic scales.

GEOG 1130G. Human Geography

3 Credits (3)

This course serves as an introduction to the study of human geography. Human geography examines the dynamic and often complex relationships that exist between people as members of particular cultural groups and the geographical 'spaces' and 'places' in which they exist over time and the world today.

GEOG 2130. Map Use and Analysis

3 Credits (2+3P)

Exploration of the cartographic medium. Development of critical map analysis and interpretation skills, and map literacy. Comprised of traditional lecture, labs, and map use projects.

GEOG 2996. Special Topics

1-3 Credits

Specific subjects to be announced in the Schedule of Classes. May be repeated for a maximum of 12 credits.

GEOL-GEOLOGY (GEOL)

GEOL 1110G. Physical Geology 4 Credits (3+3P)

Physical Geology is an introduction to our dynamic Earth introducing students to the materials that make up Earth (rocks and minerals) and the processes that create and modify the features of our planet. The course will help students learn how mountains are formed, how volcanoes erupt, where earthquakes occur, and how water, wind, and ice can shape landscapes. Students will also develop a basic understanding of the ways humans have altered the planet including our impact on natural resources and global climate change.

GEOL 1150. Introduction to Rocks and Minerals 3 Credits (2+3P)

This course is an introduction to the characteristics and the formation of the three main types of rocks, the rock-forming minerals, and important ore minerals. An outline of Plate Tectonics will give students the basis to understand how many of these rocks and minerals form. In laboratory exercises, students will gain practice in describing and identifying hand-specimens of the main types of rocks and minerals.

Prerequisite(s)/Corequisite(s): GEOL 1110G.

GEOL 2120. Introduction to Oceanography 4 Credits (3+3P)

This course covers aspects of geology, chemistry, physics, climatology, environmental science, and biology as they apply to the oceans. Oceanography explores the ocean in the Earth system with special emphasis on the flow and transformation of weather and energy into and out of the ocean, the physical and chemical properties of seawater, ocean circulation, marine life and its adaptations, interactions between the ocean and the other components of the Earth system, and the human/ societal impacts on and response to those interactions. This course provides the foundation needed for students to intelligently participate in important societal discussions that involve environmental issues. Community Colleges only. Consent of Instructor required

GEOL 2130. Introduction to Meteorology 4 Credits (3+3P)

Introduction to Earth's atmosphere and the dynamic world of weather as it happens. Working with current meteorological data delivered via the Internet and coordinated with learning investigations keyed to the current weather; and via study of select archives.

GEOL 2996. Special Topics

1-3 Credits

Specific subjects to be announced in the Schedule of Classes. Community Colleges only. May be repeated for a maximum of 12 credits.

GNDR-WOMEN'S STUDIES

GNDR 2110G. Introduction to Women, Gender, and Sexuality Studies 3 Credits (3)

This course introduces students to key concepts, debates, and analytical tools informing Women's, Gender, and Sexuality Studies. As an interdisciplinary field of study, Women's, Gender, and Sexuality Studies employs academic perspectives from a range of disciplines and theoretical approaches. It also incorporates lived experience and social location into its object of analysis. Though content will vary according to the expertise and focus of the instructor, this course will develop tools through readings and assignments that critically analyze how gender and sexuality are shaped by different networks of power and social relations and demonstrate how the intersections of race, class, disability, national status, and other categories identity and difference are central to their understanding and deployment. In addition to feminist thought, areas of focus might include gender and sexuality in relation to social, cultural, political, creative, economic, or scientific discourses. This class is recommended for those with a general interest in the topic area as well as for those seeking a foundational course for further study.

GNDR 2120G. Representing Women Across Cultures 3 Credits (3)

Historical and critical examination of women's contributions to the humanities, with emphasis on the issues of representation that have contributed to exclusion and marginalization of women and their achievements.

GRMN-GERMAN

GRMN 1110. German I

4 Credits (4)

Intended for students with no previous exposure to German, this course develops basic listening, speaking, reading, and writing skills aiming toward the ACTFL novice-mid level. This is an introductory course designed to teach the student to communicate in German in everyday situations and to develop an understanding of German cultures through the identification of cultural products and practices, of cultural perspectives, and the ability to function at a survival level in an authentic cultural content. This course will also develop the student's sense of personal and social responsibility through the identification of social issues.

GRMN 1120. German II

4 Credits (4)

A continuation of German 1, students will develop a broader foundation in skills gained during the first semester, including understanding, speaking, reading and writing German aiming toward the ACTFL novice-high level. This course is designed to increase student fluency in German as applied to everyday situations. Students will also learn to recognize and understand various German products, practices, and perspectives, identifying common cultural patterns, describing basic cultural viewpoints, and further developing their sense of personal and social responsibility through the investigation of cultural issues.

Prerequisite(s): C or better in GRMN 1110.

GRMN 2110. German III

3 Credits (3)

In this third semester course, students will continue to develop a broader foundation in skills gained during the first two semesters, including understanding, speaking, reading and writing German aiming toward the ACTFL intermediate-low level. This course is designed to teach the student to communicate in a more sustained way in areas of personal interest and in everyday situations. Students will engage in and analyze various German products, practices, and perspectives, as well as continue to develop their sense of personal and social responsibility through comparison and contrast of cultural perspectives.

Prerequisite(s): C or better in GRMN 1120.

GRMN 2120. German IV

3 Credits (3)

In this fourth semester course, students will continue to broaden and refine skills gained during previous semesters, including understanding, speaking, reading and writing German aiming at the ACTFL intermediatemid level. This course is designed to teach the student to communicate in a more sustained way in situations that go beyond the everyday. Students will evaluate various German products, practices, and create ways to demonstrate their sense of personal and social responsibility through participation in cultural interaction.

Prerequisite(s): C or better in GRMN 2110.

HIST-HISTORY (HIST)

HIST 1105G. Making History

3 Credits (3)

General introduction to history: how historians carry out research and develop interpretations about the past.

HIST 1110G. United States History I

3 Credits (3)

The primary objective of this course is to serve as an introduction to the history of the United States from the pre-colonial period to the immediate aftermath of the Civil War. The elements of this course are designed to inform students on the major events and trends that are essential in the understanding of the development of the United States within the context of world societies.

HIST 1120G. United States History II 3 Credits (3)

The primary objective of this course is to serve as an introduction to the history of the United States from reconstruction to the present. The elements of this course are designed to inform students on the major events and trends that are essential in the understanding of the development of the United States within the context of world societies.

HIST 1130G. World History I

3 Credits (3)

The primary objective of this course is to serve as an introduction to global history from the 16th century to the present. The elements of this course are designed to inform students on the major events and trends that are essential in the understanding of the development of world societies.

HIST 1140G. World History II

3 Credits (3)

The primary objective of this course is to serve as an introduction to global history from ancient times to the 16th century. The elements of this course are designed to inform students on the major events and trends that are essential in the understanding of the development of world societies.

HIST 1150G. Western Civilization I 3 Credits (3)

This course is a chronological treatment of the history of the western world from ancient times to the early modern era. The elements of this course are designed to inform students on the major events and trends that are essential in the understanding of the development of western civilization within the context of world societies. Selective attention will be given to 'non-western' civilizations which impact and influence the development of 'western' civilization.

HIST 1160G. Western Civilization II 3 Credits (3)

This course is a chronological treatment of the history of the western world from the early modern era to the present. The elements of this course are designed to inform students on the major events and trends that are essential in the understanding of the development of western civilization within the context of world societies. Selective attention will be given to 'non-western' civilizations which impact and influence the development of 'western' civilization.

HIST 1170. Survey of Early Latin America 3 Credits (3)

The primary objective of this course is to serve as a survey of the history of Latin America from pre-Columbian times through independence. This course will explore the contributions of Indigenous peoples, Africans, and Europeans to the creation of Latin America's diverse societies. The elements of this course are designed to inform students on the major events and trends that are essential to the understanding of the history of Latin America within the context of world societies.

HIST 1180. Survey of Modern Latin America 3 Credits (3)

The primary objective of this course is to serve as a survey of the history of Latin America from independence to the present. This course will explore the contributions of Indigenous peoples, Africans, and Europeans to the creation of Latin America's diverse societies. The elements of this course are designed to inform students on the major events and trends that are essential to the understanding of the history of Latin America within the context of world societies.

HIST 2110. Survey of New Mexico History

The primary objective of this course is to serve as an introduction to the history of New Mexico from the pre- Columbian times to the present day. The elements of this course are designed to inform students on the major events and trends that are essential in the understanding of the development of New Mexico within the context of the Americas.

HIST 2245G. Islamic Civilizations to 1800

3 Credits (3)

History of Islamic civilizations to 1800.

HIST 2246G. Islamic Civilizations since 1800 3 Credits (3)

History of Islamic civilizations since 1800.

HIST 2250G. East Asia to 1600

3 Credits (3)

History of China, Korea, Vietnam, and Japan from earliest times through the sixteenth century. Emphasis on cultural and political developments and their social and economic contexts, and the interaction between East Asian societies.

HIST 2251G. East Asia since 1600

3 Credits (3)

History of China, Korea, Vietnam, and Japan from the sixteenth through the twentieth centuries. Emphasis on internal development of each country, as well as the social and political impact of Western Imperialism, and the emergence of each country's unique version of modern society.

HIST 2996. Special Topics

1-3 Credits

Specific subjects to be announced in the Schedule of Classes. Community Colleges only. May be repeated for a maximum of 12 credits.

HIT-HEALTH INFO TECHNOLOGY (HIT)

HIT 110. Electronic Health Records 3 Credits (3)

This course will train students on skill requirements for becoming a safe and effective fire apparatus driver/operator. The focus will be on pump operation, construction, testing, and mathematical calculation required for effective pump operation and fire control. Responsibilities of the driver/operator will be taught and assessed consistent with applicable NFPA standards and the New Mexico Firefighters' Training Academy (NMFTA) guidelines. Students who meet all course requirements will be eligible for International Fire Service Accreditation Congress (IFSAC) certification through the NMFTA. Consent of Instructor required. Restricted to Community Colleges campuses

Prerequisite(s)/Corequisite(s): FIRE 128.

HIT 120. Health Information Introduction to Pharmacology 3 Credits (3)

Introduction to the principles of pharmacology, including drug terminology; drug origins, forms, and actions; routes of administration; as well as the use of generic name drugs, trade name drugs and categories of drugs to treat multiple and specific body systems. May be repeated up to 3 credits. Crosslisted with: NURS 120. Restricted to Community Colleges campuses only.

HIT 130. Health Information Technology Anatomy & Physiology 3 Credits (3)

An introductory course in the basics of human structure and function. Body systems are examined as to how they relate to proper code selection and as part of the functioning of the body as a whole. Restricted to Community Colleges campuses only.

HIT 140. Health Information Introduction to Pathophysiology 3 Credits (3)

Introduction to the nature of disease and its effect on body systems. Disease processes affecting the human body via an integrated approach to specific disease entities will be presented including a review of normal functions of the appropriate body systems. Diseases will be studied in relation to their etiology, pathology, physical signs and symptoms, diagnostic procedures, complications, treatment modalities and prognosis.

HIT 150. Introduction to Medical Terminology 3 Credits (3)

The study and understanding of medical terminology as it relates to diseases, their causes and effects, and the terminology used in various medical specialties. Emphasis will be placed on learning the basic elements of medical words, appropriate spelling and use of medical terms, and use of medical abbreviations. May be repeated up to 3 credits. Crosslisted with: NURS 150, AHS 120 and BOT 150. Restricted to Community Colleges campuses only.

HIT 158. Advanced Medical Terminology

3 Credits (3)

Builds upon the concepts covered in HIT 150 or AHS 120 providing greater understanding of how to properly use and apply medical terminology used in the various health fields. Medical terminology associated with the body system's anatomy and physiology, pathology, diagnostic and therapeutic procedures, pharmacology, and abbreviations will be emphasized. Restricted to Community Colleges campuses only. **Prerequisite(s):** HIT 150 or AHS 120.

HIT 221. Internship I

3 Credits (3)

Work experience that directly relates to a student's major field of study that provides the student an opportunity to explore career paths and apply knowledge and theory learned in the classroom. Internships may be paid or unpaid. Students are supervised/evaluated by both the employer and the instructor. C- or better is required for this course. Consent of Instructor required. Restricted to: BOT,HIT majors. Restricted to Community Colleges campuses

HIT 228. Medical Insurance Billing 3 Credits (3)

Comprehensive overview of the insurance specialist's roll and responsibilities. Concepts and applications that will assist the student in understanding the steps necessary for successfully completing the insurance claim filing and reimbursement processes for various insurance carriers, both private and government, will be emphasized. Restricted to Carlsbad campus only.

Prerequisite(s): HIT/NURS 150; BOT 208.

HIT 240. Health Information Quality Management 3 Credits (3)

Introduction to basic concepts of quality improvement and performance improvement as they apply to health record systems and the health care industry. Quality assessment and improvement standards and requirements of licensing, accrediting fiscal and other regulatory agencies will be presented.

HIT 248. Medical Coding I

3 Credits (2+2P)

Comprehensive overview of the fundamentals, coding conventions, and principles of selecting the most appropriate ICD-10-CM/PCS diagnostic and procedure codes. The most recent version of ICD-10-CM/PCS and an in depth study of current Official Coding Guidelines for coding and reporting will be emphasized. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): BOT 228.

HIT 255. Special Topics

3 Credits (3)

Specific topics to be announced in the Schedule of Classes. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

HIT 258. Medical Coding II 3 Credits (2+2P)

Continuation of Medical Coding I. Comprehensive overview of the coding and reporting guidelines, fundamentals, coding conventions, and principles of selecting the most appropriate CPT and HCPCS procedural codes for all medical specialties. The most recent version of CPT and a continued study of the ICD-10-CM/PCS coding conventions and principles will be emphasized. Designed as a medical coding capstone course. May be repeated up to 3 credits. Restricted to Community Colleges campuses

Prerequisite(s): HIT 248.

HIT 268. Health Information Systems

3 Credits (3)

Overview of health data management, work planning, and organization principles; an introduction to health care information systems; and review of the fundamentals of information systems for managerial, clinical support, and information systems.

HLED-HEALTH EDUCATION

HLED 1154. Lifeguarding

2 Credits (2)

Skills training for a nonsurf lifeguard. Course will include Standard First Aid and CPR certification. May be repeated up to 2 credits. Students must be able to Swim 500 yards, dive to 9-foot depth and retrieve a 10-pound brick, surface dive to 5 feet then swim underwater 15 yards, tread water one minute.

HMSV-HUMAN SERVICES

HMSV 2110. Case Management

3 Credits (3)

This course introduces students to the concept of case management, how it is used in human services, and skills necessary to function effectively as case managers. The emphasis is on the client assessment process, service planning and delivery, and client advocacy. Topics introduced include observation, data collection, documentation, and reporting of client behaviors, identification and referral to appropriate services, monitoring, planning, and evaluation. This course provides student with basic knowledge and beginning case management skills. **Prerequisite(s):** PSYC 1110G and SOWK 2110G.

HNRS-HONORS

HNRS 1110. Journeys of Discovery

1 Credit (1)

Weekly conversations among students and a faculty member; organized around a particular subject and a small selection of readings. The seminars illuminate the many paths of discovery explored by the New Mexico State University faculty.

Prerequisite(s): Honors eligible.

HNRS 2110G. The Present in the Past: Contemporary Issues and their Historical Roots

3 Credits (3)

This course will take today's concerns, trends, and customs and contextualize them in the past, explaining their historical origins and development. As an example, we will examine the history of celebrity and how celebrities – from Lord Byron to the Kardashians' made an impact on their contemporaries and the broader society of their time. This reading- and writing-intensive course will help students develop skills related to critical thinking, logical argumentation, and written and oral communication.

HNRS 2111. Successful Fellowship Writing 1 Credit (1)

Provides scholars with hands-on skills to complete proposals for scholarships and fellowships, such as the Truman, Rhodes, Marshall, Goldwater, Udall, and others. Other skills include how to write resumes, develop general research skills, and find grant and foundation sources. For freshmen and sophomores. 5 or higher

Prerequisite(s): An ACT score of 26 or higher; or a combination of an ACT score of 24-25 with a High School GPA of 3.75; or a NMSU cummulative GPA of 3.

HNRS 2114G. Music in Time and Space 3 Credits (3)

Introduction to all forms of Music. Through our auditory senses and intellectual faculties music is an ideal means for intelligent and humanistic examination of peoples and cultures, and for the enhancement of life. Types of music covered include classical, jazz, rock and roll, and world music. Music videos, live in-class performances, evening concerts, and lectures will be used as a basis for discussions and research. May be repeated up to 3 credits. Restricted to Las Cruces campus only.

HNRS 2115G. Encounters with Art 3 Credits (3)

A multicultural examination of the principles and philosophies of the visual arts and the ideas expressed through them. 5 or higher **Prerequisite(s)**: An ACT score of 26 or higher; or a combination of an ACT score of 24-25 with a High School GPA of 3.75; or a NMSU cummulative GPA of 3.

HNRS 2116G. Earth, Time and Life 4 Credits (3+3P)

Covers how the earth's materials form, processes involved in changing the earth's configuration, and extent of people's dependence upon the earth's resources. Includes mineral and energy resources, development of landscapes, environmental problems, evolution of the earth and life forms. May be taken in place of GEOL 1110. 5 or higher

Prerequisite(s): An ACT score of 26 or higher; or a combination of an ACT score of 24-25 with a High School GPA of 3.75; or a NMSU cummulative GPA of 3.

HNRS 2117G. The World of the Renaissance: Discovering the Modern 3 Credits (3)

An introduction to the literature and thought of Renaissance Europe. Humanism and the Reformation will be approached through the intensive study of major writers such as Petrarch, Machiavelli, Luther, Erasmus, Montaigne, and Shakespeare. Restricted to Las Cruces campus only. 5 or higher

Prerequisite(s): An ACT score of 26 or higher; or a combination of an ACT score of 24-25 with a High School GPA of 3.75; or a NMSU cummulative GPA of 3.

HNRS 2120G. Foundations of Western Culture 3 Credits (3)

Critical reading of seminal texts relating to the foundations of culture and values in Western civilization, from ancient Greece to about 1700. Focus on the development of concepts of nature, human nature, and the state. 5 or higher

Prerequisite(s): An ACT score of 26 or higher; or a combination of an ACT score of 24-25 with a High School GPA of 3.75; or a NMSU cummulative GPA of 3.

HNRS 2130G. Shakespeare on Film 3 Credits (3)

How do Shakespeare's plays continue to speak to us through the medium of film? Written in a time of rapid social change, Shakespeare's plays invited audiences to think critically about the relationship between the self and others and to question conventions. Performances of Shakespeare have long been used to call out social injustice, from western anti-Semitism prior to World War II (The Merchant of Venice), to civil rights-era white supremacy in the US and apartheid in South African (Othello), and authoritarianism in the Arab Spring (Richard III). This course focuses on post-1980 Hollywood film versions of Shakespeare's plays and a few prior landmark adaptations around the world, examining how they use Shakespeare as a medium for debate and even a catalyst for social change.

HNRS 2140G. Plato and the Discovery of Philosophy 3 Credits (3)

Examines arguments and theories found in the Platonic dialogues with a view to determining the nature and value of philosophy both from Plato's point of view and absolutely. 5 or higher

Prerequisite(s): An ACT score of 26 or higher; or a combination of an ACT score of 24-25 with a High School GPA of 3.75; or a NMSU cummulative GPA of 3.

HNRS 2141G. Bamboo and Silk: The Fabric of Chinese Literature 3 Credits (3)

Introductory survey of traditional and modern Chinese prose and poetry in translation with emphasis on genre, theme, and social/historical context. 5 or higher

Prerequisite(s): An ACT score of 26 or higher; or a combination of an ACT score of 24-25 with a High School GPA of 3.75; or a NMSU cummulative GPA of 3.

HNRS 2145G. Celtic Literature

3 Credits (3)

GPA of 3.

This course provides an overview of the most important early literary works of the so-called Celtic nations, principally Ireland and Wales, from a literary and historical approach. This literature stems from the period 600-1200 and ends with the development of the Romances under influence from the French

HNRS 2160G. New Testament as Literature 3 Credits (3)

Literature of the New Testament examined from a literary perspective. Emphasis on translation history of the New Testament, generic features of gospel, epistle and apocalypse, precedent literary models, problems of authorship, classification of New Testament texts. 5 or higher **Prerequisite(s):** An ACT score of 26 or higher; or a combination of an ACT score of 24-25 with a High School GPA of 3.75; or a NMSU cummulative

HNRS 2161G. Window of Humanity 3 Credits (3)

Anthropology is the most humanistic of the sciences, and the most scientific of the humanities. This course will use anthropological perspectives to examine the human experience from our earliest origins, through the experiences of contemporary societies. We will gain insights into the influence of both culture and biology on shaping our shared human universals, and on the many ways in which human groups are diverse. Restricted to Las Cruces campus only. 5 or higher Prerequisite(s): An ACT score of 26 or higher; or a combination of an ACT

Prerequisite(s): An ACT score of 26 or higher; or a combination of an ACT score of 24-25 with a High School GPA of 3.75; or a NMSU cummulative GPA of 3.

HNRS 2165. Humanities in the 21st Century 3 Credits (3)

An exploration of the humanities, of their intrinsic and extrinsic values, and of the skills and habits of mind they cultivate.

HNRS 2170G. The Human Mind 3 Credits (3)

The primary course objective is to develop an appreciation of the variety and complexity of problems that are solved by the human mind. The course explores how problems are solved by a combined computational analysis (computational theory of mind), and evolutionary (evolution by natural selection) perspective. The mind is what the brain does (i.e. information processing) and the brain is a computational device that is a product of evolution by natural selection. Note that this is not a neuroscience course, we will be focusing on the mind (what the brain does) rather than on the brain. Restricted to Las Cruces campus only.

HNRS 2171G. The Worlds of Arthur

3 Credits (3)

Arthurian texts and traditions from medieval chronicles to contemporary literature. Emphasis on both the continuities of the Arthurian tradition and the diversity of genres, media, and cultures that have given expression to the legend. May be repeated up to 3 credits. Restricted to Las Cruces campus only.

HNRS 2172G. Archaeology: Search for the Past 3 Credits (3)

A critical evaluation of various approaches to understanding prehistory and history. The methods and theories of legitimate archaeology are contrasted with fantastic claims that invoke extraterrestrials, global catastrophes, transoceanic voyages, and extra-sensory perception. May be repeated up to 3 credits. Restricted to Las Cruces campus only. 5 or higher

Prerequisite(s): An ACT score of 26 or higher; or a combination of an ACT score of 24-25 with a High School GPA of 3.75; or a NMSU cummulative GPA of 3.

HNRS 2173G. Middle Ages

3 Credits (3)

Intensive, interdisciplinary introduction to the thought and culture of medieval Europe. Core texts will include works by St. Augustine, Marie de France, and Dante, as well as anonymous works such as Sir Gawain and the Green Knight, all supplemented by study of medieval art, architecture, philosophy, and social history. 5 or higher

Prerequisite(s): An ACT score of 26 or higher; or a combination of an ACT score of 24-25 with a High School GPA of 3.75; or a NMSU cummulative GPA of 3.

HNRS 2174G. American Politics in a Changing World 3 Credits (3)

American politics and policies examined from a historical and global perspective. Philosophical underpinnings of American national government, the structure of government based on that philosophy, and the practical implications of both the philosophical and structural base. How American government influences and is influenced by the world community. 5 or higher

Prerequisite(s): An ACT score of 26 or higher; or a combination of an ACT score of 24-25 with a High School GPA of 3.75; or a NMSU cummulative GPA of 3.

HNRS 2175G. Introduction to Communications Honors 3 Credits (3)

Study and practice of interpersonal, small group, and presentational skills essential to effective social, business, and professional interaction. 5 or higher

Prerequisite(s): An ACT score of 26 or higher; or a combination of an ACT score of 24-25 with a High School GPA of 3.75; or a NMSU cummulative GPA of 3.

HNRS 2176. Acting for Everyone 3 Credits (3)

To provide fundamental training in acting techniques, including stage voice and movement, improvisation, ensemble building, characterization, emotion exploration and basic performance analysis. The course will provide a correlation between theatre skills and everyday 'life' skills and seek to encourage an appreciation for the art of theatre.

HNRS 2178G. Theatre: Beginnings to Broadway 3 Credits (3)

Intercultural and historical overview of live theatre production and performance, including history, literature and professionals. Students attend and report on stage productions. 5 or higher

Prerequisite(s): An ACT score of 26 or higher; or a combination of an ACT score of 24-25 with a High School GPA of 3.75; or a NMSU cummulative GPA of 3.

HNRS 2180G. Citizen and State Great Political Issues 3 Credits (3)

The fundamental questions of politics: why and how political societies are organized, what values they express, and how well they satisfy those normative goals and the differing conceptions of citizenship, representation, and freedom. 5 or higher

Prerequisite(s): An ACT score of 26 or higher; or a combination of an ACT score of 24-25 with a High School GPA of 3.75; or a NMSU cummulative GPA of 3

HNRS 2185G. Democracies, Despots and Daily Life 3 Credits (3)

This course will offer students the chance to read firsthand accounts of ordinary citizens' lives under different political systems, from the earliest age to the present day. This reading- and writing-intensive course will help students develop skills related to critical thinking, logical argumentation, and written and oral communication.

HNRS 2190G. Claiming a Multiracial Past 3 Credits (3)

Survey of history of the United States in the nineteenth and twentieth centuries, with an emphasis on multicultural social and cultural history. Focus on understanding American history from the point of view of dispossessed, impoverished, and disenfranchised Americans who have fought to claim both their rights as Americans and American past. 5 or higher

Prerequisite(s): An ACT score of 26 or higher; or a combination of an ACT score of 24-25 with a High School GPA of 3.75; or a NMSU cummulative GPA of 3.

HNRS 2996. Special Topics

1-3 Credits (1-3)

Special course offerings, with unique titles listed in Schedule of Classes. May be repeated up to 6 credits.

HORT-HORTICULTURE (HORT)

HORT 1115G. Introductory Plant Science 4 Credits (3+2P)

Introduction to the physical, biological, and chemical principles underlying plant growth and development in managed ecosystems. In the laboratory portion of the class, students perform experiments demonstrating the principles covered in lecture. The course uses economic plants and agriculturally relevant ecosystems to demonstrate basic principles. Appropriate for nonscience majors. Same as AGRO 1110G.

HORT 2110. Ornamental Plants I

4 Credits (2+3P)

Covers identification, botanical characteristics, culture, and landscape uses of woody plants. Emphasis on deciduous trees, native shrubs, and evergreens.

HORT 2120. Ornamental Plants II

4 Credits (2+3P)

Identification, botanical characteristics, culture, and landscape uses of woody plants. Emphasis on flowering trees, cacti, and members of the pea and rose families.

HORT 2130. Floral Quality Evaluation and Design 2 Credits (1+2P)

Critical hands-on evaluation of the quality of cut and potted floral and tropical foliage crops, their specific merits and faults, and fundamentals of floral design.

HORT 2160. Plant Propagation

3 Credits (2+2P)

Practical methods of propagating horticultural plants by seed, cuttings, layering, grafting, division and tissue culture. Examination of relevant physiological processes involved with successful plant propagation techniques. Same as AGRO 2160.

HORT 2990. Floriculture Field Practicum

1 Credit (1)

Participation as team member in the National Intercollegiate Floral Quality Evaluation and Design Competition. Intensive week-long travel for competition, networking with industry, academia, and floriculture tours. May be repeated for a maximum of 3 credits.

Prerequisite(s): HORT 2130 or consent of instructor.

HORT 2996. Special Topics

1-4 Credits

Specific subjects and credits as announced. Maximum of 4 credits per semester and a grand total of 9 credits. May be repeated up to 9 credits. Consent of Instructor required.

HOST-HOSPITALITY AND TOURISM (HOST)

HOST 155. Special Topics

1-3 Credits (1-3)

Specific subjects to be announced in the Schedule of Classes. Restricted to: Community Colleges only.

HOST 201. Introduction to Hospitality Industry

3 Credits (3)

Overview of hospitality industry; organization and operation of lodging, food and beverage, and travel and tourism segments; focus on career opportunities and future trends of hospitality industry. Restricted to: Community College campuses only.

HOST 202. Front Office Operations

3 Credits (3)

Hotel/motel front office procedures detailing flow of business, beginning with reservations and extending to the night audit process. Restricted to: Community College campuses only.

HOST 203. Hospitality Operations Cost Control 3 Credits (3)

3 Credits (3) Management of Food & Reverage facilities u

Management of Food & Beverage facilities using cost control techniques. Functional training in menu analysis and development with all phases of product flow through a Food & Beverage organization explored. Restricted to: Community Colleges only.

HOST 204. Promotion of Hospitality Services

3 Credits (3)

Organization of hotel marketing functions; developing a marketing plan to sell the varied services of the hotel/motel property. Restricted to: Community College campuses only.

HOST 205. Housekeeping, Maintenance, and Security 3 Credits (3)

Function of housekeeping departments, including personnel, sanitation, maintenance, and materials. A survey of security procedures to include guest protection and internal security of hotel/motel assets. Restricted to: Community College campuses only.

HOST 206. Travel and Tourism Operations

3 Credits (3)

Transportation, wholesale and retail operations, attractions, the traveler, tourism development, and operational characteristics of tourism business. Restricted to: Community College campuses only.

HOST 207. Customer Service for the Hospitality Industry 3 Credits (3)

Concepts of service and the customer, integrating the need for service quality, and the continuing efforts to maximize returns for the operation. Classic service styles as well as more modern service techniques are covered. Students gain in-depth managerial knowledge, planning skills, and hands-on techniques for consistently delivering quality and service in a variety of operations. Restricted to: Community College campuses only.

HOST 208. Hospitality Supervision

3 Credits (3)

Strategies for directing, leading, managing change and resolving conflict. Prepares students to meet expectations of management, guests, employees, and governmental agencies. Restricted to: Community College campuses only.

HOST 209. Managerial Accounting for Hospitality 3 Credits (3)

Prepares students to make effective business decisions based on financial report information; forecasting, budgeting, cost analysis. Restricted to: Community College campuses only.

Prerequisite(s): BOT 120 or ACCT 2110.

HOST 210. Catering and Banquet Operations 3 Credits (3)

Teaches the basics of catering and banquet operations, including computer coordination, planning, set up, service, and completion. Restricted to Community Colleges campuses only.

HOST 214. Purchasing and Kitchen Management 3 Credits (3)

Technical purchasing concepts, product selection, and specifications. Safety and sanitation as they relate to food service establishments. Prepares student for work with HACCP programs. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): HOST 203.

HOST 216. Event, Conference and Convention Operations 3 Credits (3)

The ability to successfully plan, organize, arrange, and execute special events is critical to the success of many hospitality organizations. This course gives the student a grounding in the skills necessary to achieve success in this area. A variety of events are discussed and the similarities and differences with conferences and conventions are explored. Students are taught to organize and plan events of varying type and durations. Sales, logistics, and organizing skills are emphasized. Restricted to: Community College campuses only.

HOST 219. Safety, Security and Sanitation in Hospitality Operations 3 Credits (3)

It is the responsibility of the manager to provide appropriate security, sanitation, and safety precautions in hospitality operations. Preparation for internal and external disasters is an important task for the Hospitality Manager. This course uses the National Restaurant Association ServSafe¬ training material. Restricted to: Community College campuses only.

HOST 220. Experiential Travel

1-3 Credits (1-3)

Course provides an opportunity for students to plan, prepare for and experience travel to destinations they might not otherwise have visited. Students experience local culture and peoples. May be repeated up to 9 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): HOST 201 or consent of instructor.

HOST 221. Internship I

1-3 Credits (1-3)

Work experience that directly relates to a student's major field of study that provides the student an opportunity to explore career paths and apply knowledge and theory learned in the classroom. Internships may be paid or unpaid. Students are supervised/evaluated by both the employer and the instructor. May be repeated up to 3 credits. Consent of Instructor required. Restricted to: OEHS,HOST majors.Graded: S/U Grading (S/U, Audit). Restricted to Community Colleges campuses only.

HOST 222. Cooperative Experience II

3 Credits (3)

Continuation of HOST 221. Restricted to majors. Graded: S/U. Restricted to: Community College campuses only. Restricted to HOST majors. **Prerequisite(s):** HOST 221.

HOST 239. Introduction to Hotel Management 3 Credits (3)

This course covers basic management functions in hotels, resorts, Boutique Hotels, Bed & Breakfast establishments, and other lodging operations. All aspects of the operation are covered including guest management, operations, and sales and marketing. Restricted to: Branch campuses only.

HOST 255. Special Topics

3 Credits (3)

Specific subjects to be announced in the Schedule of Classes. May be repeated up to 9 credits. Restricted to Community Colleges campuses only.

HOST 298. Independent Study

1-3 Credits (1-3)

Individual studies directed by consenting faculty with prior approval of department chair. May be repeated for a maximum of 3 credits. Restricted to: Community College campuses only.

Prerequisite(s): Minimum 3.0 GPA and sophomore standing.

HRTM-HOTEL/RESTRNT/TOURISM MGT (HRTM)

HRTM 1110. Freshman Orientation

1 Credit (1)

Orientation to university life, including available resources and methods to promote success at NMSU. Open to all freshmen and transfer students. Graded S/U.

HRTM 1120. Introduction to Tourism

3 Credits (3)

Survey of travel and tourism development and operating characteristics.

HRTM 1130. Introduction to Hospitality Management

3 Credits (3)

Overview of the major segments of the hospitality industry, with a focus on basic management principles.

HRTM 2110. Safety, Sanitation and Health in the Hospitality Industry 1 Credit (1)

Addresses public health, HACCP, and food safety responsibilities in the hospitality industry. Sanitation certification test allows students to receive national ServSafe Food Protection Manager Certification. Restricted to Las Cruces campus only.

HRTM 2120. Food Production and Service Fundamentals 3 Credits (1+4P)

Basic overview of food service systems including menu management, purchasing and production. The course includes basic principles of food fabrication and production. Topics include knife skills, culinary terminology, product identification, quality standards, nutritional cooking theory and application of food preparation techniques. The course includes laboratory aspects and demonstration of basic food production techniques, service styles, practices and procedures in food service operations including culinary math. This course provides students with an understanding of food service sanitation and culinary nutrition.

Completion of a national certification examination is required. Students who have not completed HRTM 2110 before enrolling in the course must have proof of valid ServSafe Food Protection Manager certificate. Restricted to Las Cruces campus only. Prerequisite(s)/Corequisite(s):

Prerequisite(s): HRTM 1130 or FSTE 2110G.

HRTM 2130. Hotel Operations I

3 Credits (3)

Analysis of hotel operations to include: guest services, reservations, reception, guest/city ledger and the night audit. May be repeated up to 3 credits. Restricted to Las Cruces campus only.

Prerequisite(s): HRTM 1130.

HRTM 235. Hotel Operations I

3 Credits (3)

Analysis of hotel operations to include: guest services, reservations, reception, guest/city ledger and the night audit. May be repeated up to 3 credits. Restricted to Las Cruces campus only.

Prerequisite(s): HRTM 221.

HRTM 2996. Special Topics

1-4 Credits

Specific subjects and credits to be assigned on a semester basis for both lecture and laboratory assignments. May be repeated for a maximum of 4 credits

Prerequisite: consent of instructor.

HVAC-HEATING/AC/REFRIGERATION (HVAC)

HVAC 100. EPA Clean Air Act: Section 608

1 Credit (1)

Refrigerant certification preparation to include basics of refrigerant bearing equipment, ozone depletion and the new legislation, technician categories covered and the certification examination.

HVAC 101. Fundamentals of Refrigeration

4 Credits (3+2P)

Refrigeration cycle and the various mechanical components. Use of special tools, equipment, and safety precautions.

HVAC 102. Fundamentals of Electricity

4 Credits (3+2P)

Introduction to electricity theory, OHM s Law, circuits, AC/DC, and practical applications.

HVAC 103. Electrical and Mechanical Controls I

4 Credits (3+2P)

Applications of basic electrical and mechanical controls. Reading and drawing diagrams of simple refrigerating equipment. Safe use of testing equipment.

Prerequisites: HVAC 101 and HVAC 102, or consent of instructor.

HVAC 110. Professional Development and Leadership 1 Credit (1)

As members and/or officers of various student professional organizations, students gain experience in leadership, team building, and community service. Students competing in Skills USA are required to register for the course. May be repeated up to 6 credits. Consent of Instructor required. Restricted to: HVAC majors. Graded: S/U Grading (S/U, Audit). Restricted to: Community Colleges only.

HVAC 113. Job Shadowing

1 Credit (1)

Course will expose students to actual HVAC/R field work and provide them knowledge of the expectations of field work as they shadow an HVAC/R technician. Consent of instructor required. Restricted to: Community colleges only.

HVAC 205. Commercial Refrigeration Systems 4 Credits (3+2P)

Service and maintenance of commercial refrigeration equipment to include evacuation and charging procedures, electrical diagrams, and compressors and accessories.

Prerequisites: HVAC 103 or consent of instructor.

HVAC 207. Residential Air Conditioning Systems 4 Credits (3+2P)

Applications and types of equipment used in comfort cooling. Preventive maintenance, service, and repairs common to evaporative coolers and refrigerated air conditioning systems. Air properties and psychometrics.

Prerequisite: HVAC 103 or consent of instructor.

HVAC 209. Residential Heating Systems 4 Credits (3+2P)

Gas and electric systems used in comfort heating. Maintenance procedures, safety, troubleshooting, and servicing malfunctions in equipment.

Prerequisite: HVAC 103 or consent of instructor.

HVAC 210. Commercial Air Conditioning and Heating Systems 4 Credits (3+3P)

Covers troubleshooting mechanical and electrical problems associated with HVAC equipment in commercial buildings. Includes gas, electric, and heat pump systems. Restricted to Community Colleges campuses only. **Prerequisite(s):** HVAC 103 or consent of instructor.

HVAC 211. Heat Pump Systems

4 Credits (3+2P)

Reverse cycle refrigeration systems utilized in comfort heating and cooling. Troubleshooting mechanical electrical problems associated with heat pumps. HVAC 103 or consent of instructor.

HVAC 213. Practicum

3 Credits (3)

Working in the field with journeymen service technicians. Develop and apply job skills. May be repeated up to 3 credits. Consent of Instructor required. Restricted to: HVAC majors. Restricted to Community Colleges campuses only.

Prerequisite(s): HVAC 113 and Consent of instructor.

HVAC 220. Introduction to Sheet Metal Fabrication 4 Credits (3+2P)

Introduction to sheet metal fabrication to include hands-on practical laboratory applications, cutting and forming procedures, identifying types and gauges. Design and layout techniques.

Prerequisite: OETS 118 or equivalent math or consent of instructor.

HVAC 225. New Mexico Mechanical Codes: HVAC

1-4 Credits

Principles and regulations developed for HVAC, sheet metal, and plumbing occupations to include terminology, ventilation air supply, exhaust systems, duct systems, combustion air, chimneys and vents, boilers/water heaters, refrigeration, panel and hydronic panel heating, fuel gas piping, storage systems, solar systems, and workmanship standards. May be repeated for a maximum of 12 credits.

HVAC 255. Special Topics

1-6 Credits

Topics to be announced in the Schedule of Classes. May be repeated for a maximum of 12 credits.

Prerequisite: consent of instructor.

HVAC 290. Special Problems

1-4 Credits

Individual studies related to heating, air conditioning, and refrigeration. **Prerequisites:** HVAC 101, HVAC 102, and consent of instructor.

I E-INDUSTRIAL ENGINEERING (I E)

I E 151. Computational Methods in Industrial Engineering 3 Credits (3)

History, social implications, and application of computers and an introduction to computer programming, word processing, and database management systems. Satisfies General Education computer science requirement.

Prerequisite: MATH 1220G.

I E 200. Special Problems-Sophomore

1-3 Credits

Directed individual projects. May be repeated for a total of 3 credits.

Prerequisite: consent of faculty member.

I E 217. Manufacturing Processes

2 Credits (2)

Manufacturing methods and industrial processes which include casting, forming and machining. May be repeated up to 2 credits. Crosslisted with: ET217. ET110.

Prerequisite(s): MATH 1220G.

I E 217 L. Manufacturing Processes Laboratory

1 Credit (3P)

Laboratory associated with I E 217. May be repeated up to 1 credits.

Prerequisite(s): E T 110. Corequisite(s): I E 217.

INMT - INDUSTRIAL MAINTENANCE (INMT)

INMT 133. Process Technology and Systems 4 Credits (4)

Provides instruction in the use of common process equipment. Students will use appropriate terminology and identify process equipment components such as piping and tubing, valves, pumps, compressors, turbines, motors, engines, heat exchangers, heaters, furnaces, boilers, filters dryers and other miscellaneous vessels. Included are the basic functions, scientific principles and symbols. Students will identify components on typical Process Flow Diagrams and Process and Instrument Diagrams. Restricted to Carlsbad campus only.

INMT 134. Maintenance Principles 4 Credits (4)

The course is an introduction to the maintenance of equipment utilizing mechanical, electrical and instrumentation concepts. Topics include: hand tools, bearing fundamentals, equipment lubrication, material handling, electrical safety, battery systems, diagrams, electrical production and distribution, transformers, breakers, switches, AC and DC motors, motor controllers and operations, and introduction to automation and instrumentation control. Restricted to Carlsbad campus only.

INMT 165. Equipment Processes 4 Credits (4)

This course introduces power transmission equipment and machinery components, including belt/chain driven equipment, speed reducers, variable speed drives, couplings, clutches, and conveying equipment. Students will learn the operation, maintenance, and troubleshooting for these types of equipment. The course also includes Overhead Crane Certification and Safety. Restricted to Carlsbad campus only.

INMT 205. Programmable Logic Controllers and Applications 4 Credits (4)

Students learn about programmable logic controllers; architecture; programming, interfacing, and applications. Hands-on experience on modern commercial PLC units is the main component. Restricted to Carlsbad campus only.

Prerequisite(s): BCIS 1110.

INMT 223. Electrical Repairs

4 Credits (4)

This course outlines for students the types of problems that occur in electrical machinery and systems. The course covers trouble-shooting and diagnosis, preventative maintenance, and how to make necessary repairs. Restricted to Carlsbad campus only.

INMT 235. Mechanical Drives I 4 Credits (4)

This course teaches the fundamentals of mechanical transmission systems used in industrial, agricultural, and mobile applications. Students will learn industrial relevant skills including how to: operate, install and analyze performance, and design basic transmission systems using chains, feed-belts, spur gears, bearings, and couplings. Vibration analysis will be used to determine when to perform maintenance of power transmission components. The course also covers power transmission safety, and introduction to belt and chain drives (applications, installations, and tensioning), and introduction to gear drives, coupling, and bearing, basic troubleshooting, blueprint and print reading, learning the basics of electrical drives and PDM and PM. Restricted to Carlsbad campus only.

INMT 236. Lubrication Process 3 Credits (3)

This course teaches the technical skills needed to operate, install, tune, maintain and troubleshoot automatic lubrication systems. Lubrication concepts, setup and tuning, pneumatic pumps, series-progressive valve systems and microprocessor based lubrication controllers will be covered. The course covers the principles of and importance of lubrication, oils and grease types and applications, lube management (storage, handling, and purity), and PDM and PM. Restricted to Carlsbad campus only.

INMT 237. Hydraulics I 2 Credits (2)

This course teaches fundamentals of hydraulic systems used in industry mobile application. Students learn the basic theory of application of hydraulic and electricity as it applies to hydraulics. Covered in the course are basic systems, principles of flow, pressure, viscosity, filtration, and colling. Also covered are basic components such as motor, pumps, cylinders, piping and control and relief valves. Troubleshooting strategies are discussed, along with blueprint and print reading, and PDM and PM. Industry, relevant skills including how to operate, install, analyze performance, and design basic hydraulic systems, reviewing intermediate hydraulic components and system applications. Restricted to Carlsbad campus only.

INMT 261. Pump Operations I 4 Credits (4)

This course teaches how to select, operate, install, maintain and repair the many types of pumps used by industry. Students learn the theory and practical application of all types of processed pumps and pipe systems. It covers types, components, and systems operation. It also covers troubleshooting for flow loss and cavitation. Students learn how to select, operate, install, maintain and repair the many types of pumps used by industry. Other topics covered include: Net Positive Suction Head, pump flow/head measurement, pressure head conversion, pressure flow characteristics, cavitation, series/parallel pump operation, mechanical seal/stuffing box maintenance, multi stage operation and construction, positive displacement pumps, turbine, diaphragm, peristaltic, piston, gear, and magnetic pump systems. Restricted to Carlsbad campus only.

INMT 262. Piping Systems 2 Credits (2)

This course teaches students how to install, maintain and troubleshoot fluid systems such as how to select, size, identify, install a variety of types of piping, fittings, and valves. Measurement techniques from basic to precision measurement, gauging, including the fundamentals of demonsioning and tolerancing will taught. Restricted to Carlsbad campus only.

INMT 263. Mechanical Drives II 4 Credits (4)

This course teaches the bearings and gears used in heavy duty mechanical transmission systems. This course will emphasize linear access drives, clutches, and brakes. In addition, this course teaches how to set up, operate and apply laser shaft alignment to a variety of industrial applications. This course is a study of the basic concepts and procedures for the maintenance and operations of pumps, turbines, seals, bearings, and compressors. The course will provide the student with the knowledge and skills necessary to perform proper maintenance, repair, replacement and selection of pumps, turbines, seals, bearings and compressors. Also covered are advanced gearbox, coupling and bearings, precision alignment (shaft, flange, and sheave), as well as basic vibration analysis and thermography as troubleshooting and RCA aids. Restricted to Carlsbad campus only.

INMT 264. Rigging

2 Credits (2)

This course teaches how to safely move loads of different shapes and sizes using a variety of different methods. Students will lift loads and demonstrate how to move it. Students will use hoists, slings, ropes and fittings to learn how to safely lift a wide variety of loads. Included are weight estimation, lifting rules, load ratings (sling, wire, ropes and hoists). Restricted to Carlsbad campus only.

INMT 265. Hydraulics II

2 Credits (2)

This course teaches advanced hydraulics systems. The student will learn operation of advanced hydraulic systems applications, equipment installation, performance analysis of motors and pumps, accumulators, control, relief and check valve, equipment maintenance, and system design. The course covers accumulators, sequence valves, pilot circuits and unloader valves. Students learn more troubleshooting, hydraulic drives and other applications. Restricted to Carlsbad campus only.

INMT 267. Pump Operations II

2 Credits (2)

This course teaches the student the disassembly, inspection and reassembly of centrifugal and positive displacement pumps. This course allows the student to identify and replace worn or broken components of pumps, and learn predictive and preventive maintenance principles. Lockout of the pump will be performed in addition to measurements and alignment. Restricted to Carlsbad campus only.

INTEGRATED NATURAL SCIENCES (NSC)

NSC 131. General Sciences

3 Credits (2+2P)

Designed for Allied Health students to explore the fundamentals of physical and life sciences.

JAPN-JAPANESE

JAPN 1110. Japanese I

4 Credits (4)

This course focuses on the basics of the Japanese language with a balanced approach to the development of four skills: listening, speaking, reading and writing. The course is designed to teach students to communicate with Japanese socially and to utilize culturally appropriate manners to engage in Japanese daily life. While conversational skills are emphasized, the student will also be introduced to the various Japanese scripts.

JAPN 1120. Japanese II

4 Credits (4)

This course focuses on building upon the basics of the Japanese language with a balanced approach to the development of four skills: listening, speaking, reading and writing. The course is designed to teach students to communicate with Japanese socially and to utilize culturally appropriate manners to engage in Japanese daily life. Along with further developing conversational skills, the student will also continue to learn about and utilize various Japanese scripts.

Prerequisite: grade of C or better in JPNS 1110 or consent of instructor.

JAPN 2110. Japanese III

3 Credits (3)

This course is designed for students who have completed 12 credit hours or the equivalent of Japanese study. This course continues to expand vocabulary, grammar and 209 Kanji to deal with daily activities. Its objective is to teach students to communicate in a meaningful way using all four language skills: speaking, listening comprehension, reading and writing. Students will be able to manage not-complicated daily situation. Students will attain ACTFL intermediate-low level in four skills.

Prerequisite: grade of C or better in JPNS 1120 or consent of instructor.

JAPN 2120. Japanese IV

3 Credits (3)

This course is designed for students who have completed 15 credit hours or the equivalent of Japanese study. This course continues to expand vocabulary, grammar and 271 Kanji to deal with not-complicated daily situation with ease. Also students acquire a competence for Japanese pragmatic usage. This course follows ACTFL language guidelines, integrating the five C's: communication, cultures, connections, comparisons and communities, to offer the student a well-rounded classroom experience. Students will attain ACTFL intermediate-mid level in four skills.

Prerequisite: grade of C or better in JPNS 2110 or consent of instructor.

JOUR-JOURNALISM (JOUR)

JOUR 102. Grammar for Journalists

2 Credits (2)

Instruction of basic grammar, spelling and punctuation. Required for all journalism students with an ACT English score below 25, SAT Verbal below 570, or students who have not taken ACT/SAT tests. Restricted to Las Cruces campus only.

JOUR 105G. Media and Society

3 Credits (3)

Functions and organization of the mass media system in the United States; power of the mass media to affect knowledge, opinions, and social values; and the impact of new technologies.

JOUR 110. Introduction to Media Writing

3 Credits (2+2P)

Preparation of copy for broadcasting, print, advertising, and public relations. Introduction to Web applications. May be repeated up to 3 credits.

Prerequisite(s): JOUR 102 or ACT score of 25 and above or SAT score of 570 and above.

JOUR 201. Introduction to Multimedia

3 Credits (3)

Provide students with the basic skills to produce multimedia packages using text, photos, audio and video, as well as social media for professional purposes. Intensive hands-on class using editing software such as Adobe Premiere. Adobe Audition and Photoshop. May be repeated up to 3 credits.

JOUR 210. Newswriting & Reporting

3 Credits (2+2P)

Intensive laboratory practice in writing and field reporting news for print and Internet. May be repeated up to 3 credits. Restricted to Las Cruces campus only.

Prerequisite(s): JOUR 102 or ACT score of 25 and above or SAT score of 570 and above and JOUR 110

L SC-LIBRARY SCIENCE (L SC)

L SC 100. Introduction to Libraries

3 Credits (3)

Overview of libraries, including history and development, responsibilities of library personnel, types of libraries and services, and technology and trends. Restricted to Dona Ana campus only.

L SC 110. Reference and Information Resources I 3 Credits (3)

Overview of reference services. Introduction to, and evaluation of, basic types of information resources (both print and electronic) and their application in libraries.

L SC 111. Introduction to Information Literacy in an Electronic Environment

3 Credits (3)

Introduction to the basics of the research process; the organization, location and evaluation of information using print, non-print and electronic resources. Restricted to: Community Colleges only.

L SC 112. Introduction to Consumer Health Information Literacy in an Electronic Environment

3 Credits (3)

Introduction to consumer health information literacy; the process and organization, location, and evaluation of online information. Restricted to: Community Colleges only.

L SC 120. Cataloging Basics I: Descriptive Cataloging 3 Credits (3)

Introduction to descriptive cataloging. Restricted to: Dona Ana campus only.

L SC 130. Introduction to Technical Services in Libraries 3 Credits (3)

Introduction to technical services in libraries, including acquisitions, bindery, cataloging, gifts, and serials. Restricted to Dona Ana campus only.

L SC 140. Multimedia Materials and Presentations in Libraries 3 Credits (3)

Overview of media formats and equipment. Introduction to desktop publishing, presentations, and web-page creation applications in libraries. Restricted to: Community Colleges only.

L SC 150. Library Services for Children and Young Adults 3 Credits (3)

Library services for children and young adults with an overview of materials, programs, and services for this population. Restricted to: Dona Ana campus only.

L SC 154. State Children's Book Awards 1 Credit (1)

Students will explore the state book award offered by their state. Students will read some of the books and plan library programs to promote the award. Restricted to: Dona Ana campus only.

L SC 160. Introduction to Public Services in Libraries 3 Credits (3)

Introduction to public services in libraries, including circulation, inter-library loan, reference, media services, special collections, and government documents. Restricted to Dona Ana campus only.

L SC 175. Civic Involvement in Library Science

1-3 Credits

Involvement in an organized community service project or group with a library or information technology component. Promotes awareness of volunteer and community service opportunities. May be repeated for a maximum of 6 credits. Graded: S/U. Restricted to: Dona Ana campus only.

L SC 191. Children's Books and their Movie Adaptations 1 Credit (1)

For almost as long as there have been popular books for children in the United States, there have been dramatic adaptations of them. What is gained, and lost, when children's books are adapted for the big screen? What is the relationship-or what should the connection be-between works of children's literature and their seemingly inevitable film adaptations? Students will be expected to read several children's books and view the movies based on them and make comparisons. Restricted to: Community Colleges only.

L SC 192. Myths and Legends in Children's Literature 1 Credit (1)

The student will explore myths and legends from diverse cultures; from European and Asian to those who have their roots in Africa and the Americas. Myths which are similar across several cultures will be compared.

L SC 195. Mysteries for Children

1 Credit (1)

In this course the student will become familiar with a wide variety of mysteries for children. Ways to use mysteries in the classroom and school library will also be covered. Restricted to Community Colleges campuses only.

L SC 196. Historical Fiction for Children

1 Credit (1)

This course looks at historical fiction as a genre. Topics include: fiction vs. history, American history in children's literature, world history in children's literature, activities for using historical fiction in a school setting. Restricted to: Community Colleges only.

L SC 200. Collection Management and Development in Libraries 3 Credits (3)

Principles of identifying, selecting, acquiring, managing, and evaluating resources for libraries. Restricted to Dona Ana campus only.

L SC 201. Public Libraries

3 Credits (3)

A study of the American public library and its place in communities. Topics may include history, philosophy, and standards, operations and procedures, governance, funding, personnel materials, user services, outreach and advocacy. Restricted to: Dona Ana campus only.

L SC 203. School Library Media Specialist

3 Credits (3)

Principles and practice of managing the school library media center, with an emphasis on its specific educational mission. Topics may include collection development, classes and lesson plans, public relations, administrative procedures, and use of technology. Restricted to Dona Ana campus only.

L SC 210. Technology Planning in Libraries

3 Credits (3)

Overview of computer applications in libraries. Topics may include automated systems and electronic resources, introduction to evaluation of technology, and writing a technology plan. Restricted to Dona Ana campus only.

L SC 220. Innovative Technology Applications for Libraries 3 Credits (3)

A look at uses for innovative technologies in libraries. Topics may include blogs, wikis, podcasting and virtual reality libraries. Restricted to Dona Ana campus only.

L SC 221. Experiential Learning I

1-3 Credits

Student is employed (paid or non-paid) in an approved work site and evaluated by their supervisor. Each credit requires a specified number of hours of on-the job work experience. Consent of Instructor required. Graded: S/U Grading (S/U, Audit). Restricted to Dona Ana campus only. **Prerequisite(s):** Consent of instructor.

L SC 230. Issues and Ethics in Libraries

3 Credits (3)

Discussions of current and continuing challenges to effective library service. Topics may include copyright, censorship, intellectual freedom, Internet filtering, problem patrons, security, or other current issues. Restricted to Dona Ana campus only.

L SC 240. Internet Resources and Research Strategies 3 Credits (3)

Introduction to retrieving and evaluating information found on the Internet and in selected Internet-accessible databases. Restricted to: Dona Ana campus only.

L SC 250. Reference and Information Resources II 3 Credits (3)

Evaluation and use of specialized information resources to offer reference services. Emphasis is on virtual reference and other innovative techniques. Restricted to: Dona Ana campus only.

L SC 255. Special Topics

1-3 Credits

Special topics to be announced in Schedule of Classes. May be repeated for a maximum of 12 credits. Restricted to: Dona Ana campus only.

L SC 270. Library Science Capstone

3 Credits (3)

A culmination of all technical courses that are required to receive an Associate of Applied Science from the program centering around the completion of a library related project. Discussions on the role of paraprofessionals in libraries. Restricted to: Dona Ana campus only.

L SC 275. Fundamentals of Library Supervision 3 Credits (3)

An introduction to supervision of library employees, including student assistants, to create a productive workplace. Restricted to: Dona Ana campus only.

L SC 286. Children's Literature and the Primary Curriculum 3 Credits (3)

The student will research the use of picture books and other children's literature across the curriculum with students in kindergarten through second grade. Topics include: using literature to teach writing, using literature to teach science, using literature to teach math, using literature to teach social studies. Restricted to: Community Colleges only.

L SC 291. Southwestern Children's Literature

1 Credit (1)

This course will introduce students to books which can teach the children visiting your library more about the people and places of the southwest. Restricted to: Dona Ana campus only.

L SC 295. Introduction to Young Adult Literature 3 Credits (3)

The course will expose students to quality adolescent literature available for reading and study in middle and high school classes. It provides a broad survey of young adult literature and focuses on building an appreciation of literature, encouraging student reading, developing lifelong readers, and developing activities for critical thinking. Restricted to: Community Colleges only.

L SC 296. Multicultural Books for Children and Youth 3 Credits (3)

This course explores a wide range of multicultural children's literature including: African American, Native American, Latino, Asian, Jewish, and Middle Eastern. Topics covered include: nonfiction of the cultures, historical fiction of the cultures, and contemporary literature of the cultures. Restricted to: Community Colleges only.

L SC 298. Independent Study

1-3 Credits

Individual studies directed by consenting faculty with prior approval of department chair. May be repeated for a maximum of 12 credits. Restricted to: Dona Ana campus only.

LANG-LANGUAGE (LANG)

LANG 111. Beginning Language I 4 Credits (4)

Developing language skills through study abroad for languages not offered at NMSU main campus. Specific languages to be identified with course subtitles. Main campus only.

Prerequisite: Language placement exam or consent of the instructor.

LAWE-LAW ENFORCEMENT (LAWE)

LAWE 180. Public Safety First Line Supervisor 3-6 Credits (3-6)

This course is designed to enhance public safety personnel's human resource management and reduce organizational liability. Consent of Instructor required. Restricted to Community Colleges campuses

LAWE 201. Introduction to Juvenile Delinquency 3 Credits (3)

An introductory overview of the juvenile justice system of due process, custody, detention and release. Note: course does not meet upper division requirements towards completion of Bachelor of Science in Criminal Justice. Restricted to: Community Colleges Only.

LAWE 202. Police Patrol Procedures 3 Credits (3)

A critical review of police procedures and the influences on police behavior; policy development, including the police role; discretion; police community interaction and arrest, search and seizure. Restricted to: Community Colleges only.

LAWE 203. Introduction to Police Supervision 3 Credits (3)

An introductory overview of police supervision and concerns as it applies to law enforcement. (Note: Course does not meet upper division requirements toward completion of Bachelor of Science in Criminal Justice.) Restricted to: Community Colleges only.

LAWE 204. Introduction to Homeland Security 3 Credits (3)

A historical perspective of international and domestic terrorist threats and the need to develop cohesive response policies and practices in the interest of National Security. [Course does not meet requirements towards completion of Bachelor of Science in Criminal Justice.]

Restricted to: Community Colleges only.

Prerequisite(s): CJUS 1110G.

LAWE 205. Practical Field Investigations 4 Credits (3+3P)

Incorporates the current methods and techniques for the management of the crime scene, includes documentation, collection and preservation of evidence and case presentations. [Course does not meet requirements towards completion of Bachelor of Science in Criminal Justice.]

Restricted to Community Colleges campuses only.

Prerequisite(s): CJUS 1110G and CJUS 2140.

LAWE 206. Traffic Enforcement and Crash Investigations 3 Credits (3)

History and development of traffic laws and regulations, including basic elements of traffic violations, detection, apprehension, impaired drivers and guidelines and procedures for effective crash investigations and reporting. Restricted to: Community Colleges only.

LAWE 207. Legal Aspects of Law Enforcement 3 Credits (3)

An evaluation of police authority including responsibilities, civil liability, liability implications, legal obligations, legal restraints, laws of arrest, and search and seizure. Retricted to: Community Colleges only.

LAWE 221. Law Enforcement Internship

3 Credits (3)

Application of knowledge, skills and abilities, in an agency as an intern and integrated member of a law enforcement affiliated agency.

Prerequisite: consent of instructor.

LAWE 233. Practical Approach to Terrorism 3 Credits (3)

Gives responders an overall safety approach in recognizing and responding to incidents involving terrorism. Presents and overview in types of harm, explosive weapons, chemical weapons, biological weapons and radiological weapons. [Course does not meet requirements towards completion of Bachelor of Science in Criminal Justice.]

Restricted to: Dona Ana campus only. Crosslisted with: FIRE 233

LAWE 255. Special Topics 1-3 Credits (1-3)

Introductory special topics of lower division level work that provides a variety of timely subjects and content material. Specific subjects to be announced in the Schedule of Classes. A passing grade of C- or better is required. May be repeated up to 6 credits. Consent of Instructor required. Restricted to Community Colleges campuses

LAWE 298. Independent Study

3 Credits (3)

Individual studies directed by the consenting faculty with prior approval of the department chair. A passing grade of C- or better is required. May be repeated up to 6 credits. Consent of Instructor required. Restricted to Community Colleges campuses

Prerequisite(s): Sophomore standing with a 3.0 or better GPA.

LIBR-LIBRARY SCIENCE

LIBR 1110. Introduction to Research

1 Credit (1)

The goal of this course is to provide students with techniques and tools to become better researchers. This course introduces students to the research process, and the organization, location, and evaluation of information.

LIBR 1111. Introduction to Information Literacy in an Electronic Environment

3 Credits (3)

Introduction to the basics of the research process; the organization, location and evaluation of information using print, non-print and electronic resources; and techniques of effective personal information management in a computerized setting. Uses a combination of active and hands-on learning methods as well as lectures.

LING-LINGUISTICS (LING)

LING 2110G. Introduction to the Study of Language and Linguistics 3 Credits (3)

This course presents an introduction to the study of language through the basic aspects of linguistic analysis: the sound system (phonetics and phonology), the structure of words and sentences (morphology and syntax), and the ways in which language is used to convey meaning (semantics and pragmatics). In addition, the course will investigate how language is acquired and stored in the brain, and how differences in speech styles and dialects reflect different social and cultural backgrounds of individual speakers.

M E-MECHANICAL ENGINEERING (MF)

M E 159. Graphical Communication and Design 2 Credits (1+3P)

Sketching and orthographic projection. Covers detail and assembly working drawings, dimensioning, tolerance specification, and design projects

Prerequisite(s)/Corequisite(s): MATH 1250G.

M E 201. Supplemental Instruction to Dynamics 1 Credit (1)

Optional workshop for students in M E 237. The workshop focuses on problem solving skills associated with M E 237. Course does not count toward departmental degree requirements. May be repeated up to 1 credits. Restricted to Las Cruces campus only.

Corequisite(s): M E 237.

M E 202. Supplemental Instruction to Thermodynamics 1 Credit (1)

Optional workshop for students in ME 240. The workshop focuses on problem solving skills associated with ME240. Course does not count toward departmental degree requirements. Restricted to Las Cruces campus only.

Corequisite(s): M E 240.

M E 210. Electronics and System Engineering 3 Credits (2+3P)

Introduction to microcontrollers, measurement systems, motion actuators, sensors, electric circuits, and electronic devices and interfacing. Students required to work individually and in teams to design and test simple electromechanical systems. May be repeated up to 3 credits. Restricted to Las Cruces campus only.

Prerequisite(s): MATH 1521G or MATH 1521H.

M E 222. Introduction to Product Development 3 Credits (2+3P)

Introduction to modern methods used in the realization of products. Traditional manufacturing processes, such as metal stamping, turning, milling, and casting are reviewed. Modern methods of rapid prototyping and model making are discussed in context of computer-aided design. Techniques for joining metals, plastics, and composites are discussed. Role of quality control is introduced. May be repeated up to 3 credits. Restricted to: exclude majors.

Prerequisite(s): M E 159 or E T 110.

M E 228. Engineering Analysis I

3 Credits (3)

Introduction to engineering analysis with emphasis on engineering applications. Topics include ordinary differential equations, linear algebra, and vector calculus with focus on analytical methods. Restricted to Las Cruces campus only.

Prerequisite(s): MATH 2530G.

M E 234. Mechanics-Dynamics

3 Credits (3)

Kinematics and dynamic behavior of solid bodies utilizing vector methods.

Prerequisite(s)/Corequisite(s): MATH 2530G. Prerequisite(s): C E 233.

M E 236. Engineering Mechanics I

3 Credits (3)

Force systems, resultants, equilibrium, distributed forces, area moments, friction, and kinematics of particles. May be repeated up to 3 credits.

Prerequisite(s)/Corequisite(s): PHYS 1310G. Prerequisite(s): MATH 1521G or MATH 1521H.

M E 237. Engineering Mechanics II 3 Credits (3)

Kinetics of particles, kinematics and kinetics rigid bodies, systems of particles, energy and momentum principles, and kinetics of rigid bodies in three dimensions. May be repeated up to 3 credits.

Prerequisite(s)/Corequisite(s): MATH 2530G. Prerequisite(s): M E 236.

M E 240. Thermodynamics

3 Credits (3)

First and second laws of thermodynamics, irreversibility and availability, applications to pure substances and ideal gases.

Prerequisite: PHYS 1310G.

M E 261. Mechanical Engineering Problem Solving 3 Credits (2+3P)

Introduction to programming syntax, logic, and structure. Numerical techniques for root finding, solution of linear and nonlinear systems of equations, integration, differentiation, and solution of ordinary differential equations will be covered. Multi function computer algorithms will be developed to solve engineering problems. May be repeated up to 3 credits.

Prerequisite(s): MATH 1521G or MATH 1521H.

M SC-MILITARY SCIENCE (M SC)

M SC 110. Introduction to Military Science 2 Credits (2+1P)

Introduction to the Army, the Profession of Arms, and critical thinking. Students will examine the Army Profession and what it means to be a professional in the U.S. Army. The overall focus is on developing basic knowledge and comprehension of the Army Leadership Requirements Model while gaining a complete understanding of the Reserve Officers' Training Corps (ROTC) program, its purpose in the Army, and its advantages for the student. Cadets also learn how resiliency and fitness supports their development as an Army leader. Includes a weekly lab facilitated by MSL III Cadets and supervised by Cadre. May be repeated up to 2 credits. Restricted to Las Cruces campus only.

M SC 110 L. Introduction to Military Science Lab 1 Credit (1P)

Planning, coordination, execution and evaluation of training and activities in a collaborative training environment with both basic and advanced course students from within the ROTC program. Students develop and refine leadership skills in positions of responsibility. Restricted to Las Cruces campus only.

Prerequisite(s): MSC 110.

M SC 111. Introduction to Leadership 2 Credits (2+1P)

Introduction to the personal challenges and competencies that are critical for effective leadership. Students learn how the personal development of life skills such as critical thinking, time management, goal setting, and communication contribute to effective leadership. Students learn the basics of the communications process and the importance for leaders to develop the essential skills to effectively communicate in the Army. Students will begin learning the basics of squad level tactics that will be reinforced during a weekly lab facilitated by MSL III Cadets and supervised by Cadre. May be repeated up to 2 credits. Restricted to Las Cruces campus only.

M SC 111 L. Introduction to Leadership Lab 1 Credit (1P)

Planning, coordination, execution and evaluation of training and activities in a collaborative training environment with both basic and advanced course students from within the ROTC program. Students develop and refine leadership skills in positions of responsibility. Restricted to Las Cruces campus only.

Prerequisite(s): MSC 111.

M SC 210. Self/Team Development 3 Credits (3+1P)

A focus on leadership and decision making. The course adds depth to the student's understanding of the Adaptability Army Learning Area. Outcomes are demonstrated through Critical and Creative Thinking and the ability to apply Troop Leading Procedures (TLP) to apply Innovative Solutions to Problems. The Army Profession is also stressed through leadership forums and a leadership self-assessment. Students are then required to apply their knowledge outside the classroom in a hands-on performance-oriented environment during a weekly lab facilitated by MSL III Cadets and supervised by Cadre and three physical fitness sessions per week. Restricted to Las Cruces campus only.

M SC 210 L. Self/Team Development Lab 1 Credit (1P)

Planning, coordination, execution and evaluation of training and activities in a collaborative training environment with both basic and advanced course students from within the ROTC program. Students develop and refine leadership skills in positions of responsibility. Restricted to Las Cruces campus only.

Prerequisite(s): MSC 210.

M SC 211. Leadership in Action and Team Building 3 Credits (3+1P)

A focus on Army doctrine and team development. The course begins the journey to understand and demonstrate competencies as they relate to Army doctrine. Army Values, Teamwork, and Warrior Ethos and their relationship to the Law of Land Warfare and philosophy of military service are also stressed. The ability to lead and follow is also covered through Team Building exercises at squad level. Students are then required to apply their knowledge outside the classroom in a hands-on performance-oriented environment during a weekly lab facilitated by MSL III Cadets and supervised by cadre and three physical fitness sessions per week. Restricted to Las Cruces campus only.

M SC 211 L. Leadership in Action and Team Building Lab 1 Credit (1P)

Planning, coordination, execution and evaluation of training and activities in a collaborative training environment with both basic and advanced course students from within the ROTC program. Students develop and refine leadership skills in positions of responsibility. Restricted to Las Cruces campus only.

Prerequisite(s): MSC 211.

M SC 225. Directed Studies

1-3 Credits

Individual directed studies under supervision of the Professor of Military Science. May be repeated up to 12 credits. Restricted to Las Cruces campus only.

Prerequisite(s): GPA 2.5 or better.

MAT-AUTOMATION & MANUFACTURING (MAT)

MAT 102. Print Reading for Industry 3 Credits (2+2P)

Reading, interpretation, and revisions of industrial technical drawings common to manufacturing, Aerospace, machine parts, electrical, hydraulic, and Pneumatic drawings. Interpretation of engineering drawings and related shop calculations. Introduction Crosslisted with: AERT 113. Restricted to: Community Colleges only.

MAT 105. Introduction to Manufacturing 3 Credits (2+2P)

Introduction to manufacturing evolution from basic assembly process to modern automated processes. Covers history, employability, soft skills, quality measurements, teamwork concept, production requirements, and considerations in plan layout and design. Minimum math proficiency of CCDM 114 required or math placement into MATH 1215 or higher. Restricted to: Community Colleges only. Crosslisted with: AERT 112

MAT 106. Applied Manufacturing Practices 3 Credits (2+2P)

Course will illustrate how various products are manufactured along with associated process. Mechanical behavior such as bending, cold worked, strained, work hardened, and heat transfer will be emphasized as well. In lab, students will learn how to make selected products starting from prints to complete projects including quality control. Crosslisted with: AERT 114. Restricted to: Community Colleges only.

MAT 108. Metrology, Safety and Quality Control for Manufacturing 3 Credits (2+2P)

Use of measuring tools in manufacturing process and quality control. These tools include: vernier and digital micrometers, calipers, height gauges, hole gauges, pin gauges, electrical pressure/flow, temperature measuring, stress/strain measurements, and non-destructive testing (eddy currents, magnetic particle, ultrasonic, bubble emission, x-ray, Gamma ray, radiography, visual inspection, ring test, taping & Zyglo). Instruction to use of coordinate machine while covering the safety issues that pertains to these types of tools and equipment. Restricted to: Community Colleges only.

MAT 110. Machine Operation and Safety 3 Credits (2+2P)

Introduction to the operation and safety aspects of various types of machinery and equipment, including both mechanical and electrical machines, Rigid Tubing, and Flexible Lines. Maintenance and safety operation of industrial equipment will also be covered. Restricted to: Community Colleges only. Crosslisted with: AERT 115

MAT 130. Applied Industrial Electricity I 4 Credits (3+2P)

Electrical safety, AC and DC circuits, use and care of common measuring instrumentation, schematic and wiring diagrams, electromagnetism, National Electric Code branch circuits. Restricted to: Community Colleges only.

Prerequisite(s): MATH 1215 or ELT 120 or OETS 118.

MAT 135. Applied Industrial Electricity II

4 Credits (3+2P)Relationship between motor power, speed, and torque, basic application

of relay circuits, motor control circuits, inductance and capacitance factors, transformers, solid state devices circuits and applications.

Restricted to: Community Colleges only.

Prerequisite(s): MAT 130.

MAT 145. Electromechanical Systems for Non-Majors 4 Credits (3+3P)

Electromechanical system interfacing. Principles and applications of preventive and corrective maintenance procedures on automated industrial production machines using system technical and maintenance manuals to develop troubleshooting procedures using systems block and schematic diagrams.

Prerequisite: consent of instructor.

MAT 221. Cooperative Experience I

1-6 Credits

Supervised cooperative work program. Student is employed in an approved occupation and rated by employer and instructor. Student meets in a weekly class. Graded S/U.

Prerequisite: consent of instructor.

MAT 234. Industrial Electricity Maintenance 3 Credits (2+2P)

Introduction into electrical systems, theory and uses for the different types of motors used in the industry and related industrial safety practices. DC, AC stepper and servo motors, motor speed and torque, motor performance, and efficiency, motor control fundamentals using variable frequency drives, vector controls, servo and stepper drives. Restricted to: Community Colleges only.

MAT 265. Special Topics

1-6 Credits

Course subtitled in the Schedule of Classes. May be repeated for a maximum of 12 credits.

Prerequisite: consent of instructor.

MATH-MATHEMATICS (MATH)

A student may not receive credit for a lower-division mathematics course if it serves as a prerequisite to a lower-division math course that the student had previously passed with a grade of C- or better.

Students without adequate placement to enroll in MATH 1134, MATH 1215 or MATH 1130G can gain admission to the course by earning a C- or better in CCDM 114 N at an NMSU Community College campus, or in A S 103.

Students wishing to enroll in MATH 1220G, MATH 1430G, MATH 1250G, MATH 1511G, or MATH 1350G must satisfy one of the following:

- 1. have passed the stated prerequisite course or an equivalent transfer course with a C- or better
- have placed into the course with an adequate ACT Math score or through the Mathematics Placement Examination (MPE), the results of which will be made available to the student's advisor. The MPE is given daily in Walden Hall when school is in session and during new student orientation programs.

MATH 1130G. Survey of Mathematics 3 Credits (3)

This course will develop students' ability to work with and interpret numerical data, to apply logical and symbolic analysis to a variety of problems, and/or to model phenomena with mathematical or logical reasoning. Topics include financial mathematics used in everyday life situations, statistics, and optional topics from a wide array of authentic contexts. Prerequisisite(s): adequate scoring on the Mathematics Placement Exam, or any ACT/SAT and GPA combination that is considered equivalent, or a C- or better in CCDM 113 N or CCDM 114 N or A S 103 or higher

MATH 1134. Fundamentals of Elementary Mathematics I 3 Credits (3)

Numbers and the four operations of arithmetic. Understanding and comparing multiple representations of numbers and operations, in particular how these representations build from whole numbers to integers to fractions and decimals. Applying properties of numbers and operations in contextual situations. Reasoning, communicating, and problem solving with numbers and operations. Applications to ratio, and connections with algebra. Taught primarily through student activities and investigations. Restricted to: EDUC,EPAR,E ED,ECED majors. Prerequisiste(s): adequate scoring on the Mathematics Placement Exam, or any ACT/SAT and GPA combination that is considered equivalent, or a C- or better in MATH 1215 or higher

MATH 1215. Intermediate Algebra

3 Credits (3)

A study of linear and quadratic functions, and an introduction to polynomial, absolute value, rational, radical, exponential, and logarithmic functions. A development of strategies for solving single-variable equations and contextual problems. Prerequisite(s): adequate scoring on the Mathematics Placement Exam, or any ACT/SAT and GPA combination that is considered equivalent, or a C- or better in CCDM 113 N or CCDM 114 N or A S 103 or higher

MATH 1217. General Supplemental Instruction I 1 Credit (2P)

Collaborative workshop for students enrolled in Intermediate Algebra. Graded: S/U Grading (S/U, Audit). Corequisite(s): MATH 1215

MATH 1220G. College Algebra 3 Credits (3)

The study of equations, functions and graphs, reviewing linear and quadratic functions, and concentrating on polynomial, rational, exponential and logarithmic functions. Emphasizes algebraic problem solving skills and graphical representation of functions. Prerequisisite(s): adequate scoring on the Mathematics Placement Exam, or any ACT/SAT and GPA combination that is considered equivalent, or a C- or better in MATH 1215 or higher

MATH 1221. General Supplemental Instruction II 1 Credit (1+2P)

Collaborative workshop for students enrolled in College Algebra. Graded: S/U Grading (S/U, Audit).

Corequisite(s): MATH 1220G.

MATH 1250G. Trigonometry & Pre-Calculus 4 Credits (3+2P)

Trigonometry & Pre-Calculus includes the study of functions in general with emphasis on the elementary functions: algebraic, exponential, logarithmic, trigonometric and inverse trigonometric functions. Topics include rates of change, limits, systems of equations, conic sections, sequences and series, trigonometric equations and identities, complex number, vectors, and applications.Prerequisiste(s): adequate scoring on the Mathematics Placement Exam, or any ACT/SAT and GPA combination that is considered equivalent, or a C- or better in MATH 1220G or higher

MATH 1350G. Introduction to Statistics 3 Credits (3)

This course discusses the fundamentals of descriptive and inferential statistics. Students will gain introductions to topics such as descriptive statistics, probability and basic probability models used in statistics, sampling and statistical inference, and techniques for the visual presentation of numerical data. These concepts will be illustrated by examples from a variety of fields. Prerequisite(s): adequate scoring on the Mathematics Placement Exam, or any ACT/SAT and GPA combination that is considered equivalent, or a C- or better in MATH 1215 or higher

MATH 1430G. Applications of Calculus I 3 Credits (2+2P)

An algebraic and graphical study of derivatives and integrals, with an emphasis on applications to business, social science, economics and the sciences. Prerequisite(s): adequate scoring on the Mathematics Placement Exam, or any ACT/SAT and GPA combination that is considered equivalent, or a C- or better in MATH 1220G or higher

MATH 1435. Applications of Calculus I

3 Credits (3)

Intuitive differential calculus with applications to engineering. **Prerequisite(s)**: C- or better in MATH 1250G.

MATH 1440. Applications of Calculus II

3 Credits (3)

Topics in this second course of Applications of Calculus include functions of several variables, techniques of integration, an introduction to basic differential equations, and other applications.

Prerequisites: C or better in MATH 1430G or in MATH 1521G, or in MATH 1521H.

MATH 1511G. Calculus and Analytic Geometry I 4 Credits (4)

Limits and continuity, theory and computation of derivatives, applications of derivatives, extreme values, critical points, derivative tests, L'Hopital's Rule. Prerequisite(s): adequate scoring on the Mathematics Placement Exam, or any ACT/SAT and GPA combination that is considered equivalent, or a C- or better in MATH 1250G or higher

MATH 1521G. Calculus and Analytic Geometry II 4 Credits (4)

Riemann sums, the definite integral, antiderivatives, fundamental theorems, techniques of integration, applications of integrals, improper integrals, Taylor polynomials, sequences and series, power series and Taylor series.

Prerequisite(s): C or better in MATH 1511G.

MATH 1521H. Calculus and Analytic Geometry II Honors 4 Credits (3+1P)

A more advanced treatment of the material of MATH 1521G with additional topics. Consent of Instructor required. Restricted to Las Cruces campus only. Consent of Department.

MATH 1531. Introduction to Higher Mathematics 3 Credits (3)

Logic; sets, relations, and functions; introduction to mathematical proofs. **Prerequisite(s):** C- or better in MATH 1521G or MATH 1521H.

MATH 1996. Topics in Mathematics

1-3 Credits

Topics to be announced in the Schedule of Classes. Maximum of 3 credits per semester. Total credit not to exceed 6 credits. Community Colleges only.

Prerequisite: consent of instructor.

MATH 2134G. Fundamentals of Elementary Math II 3 Credits (3)

Geometry and measurement. Multiple approaches to solving problems and understanding concepts in geometry. Analyzing and constructing two- and three-dimensional shapes. Measurable attributes, including angle, length, area, and volume. Understanding and applying units and unit conversions. Transformations, congruence, and symmetry. Scale factor and similarity. Coordinate geometry and connections with algebra. Reasoning and communicating about geometric concepts. Taught primarily through student activities and investigations.

Prerequisite(s): C or better in MATH 1134.

MATH 2234. Fundamentals of Elementary Mathematics III 3 Credits (3)

Probability, statistics, ratios, and proportional relationships. Experimental and theoretical probability. Collecting, analyzing, and displaying data, including measurement data. Multiple approaches to solving problems involving proportional relationships, with connections to number and operation, geometry and measurement, and algebra. Understanding data in professional contexts of teaching. Taught primarily through student activities and investigations.

Prerequisite(s): C or better in MATH 2134G.

MATH 2350G. Statistical Methods 3 Credits (3)

Exploratory data analysis. Introduction to probability, random variables and probability distributions. Concepts of Central Limit Theorem and Sampling Distributions such as sample mean and sample proportion. Estimation and hypothesis testing single population parameter for means and proportions and difference of two population parameters for means and proportions. Analysis categorical data for goodness of fit. Fitting simple linear regression model and inference for regression parameters. Analysis of variance for several population means. Techniques in data analysis using statistical packages. Prerequisite(s): adequate scoring on the Mathematics Placement Exam, or any ACT/SAT and GPA combination that is considered equivalent, or a C- or better in MATH 1215 or higher

MATH 2415. Introduction to Linear Algebra 3 Credits (3)

Systems of equations, matrices, vector spaces and linear transformations. Applications to computer science.

Prerequisite(s): Grade of C- or better in MATH 1521G or MATH 1521H.

MATH 2530G. Calculus III

3 Credits (3)

The purpose of this course, which is a continuation of Calculcus II, is to study the methods of calculus in more detail. The course will cover the material in the textbook from Chapters 10-14. Vectors in the plane and 3-space, vector calculus in two-dimensions, partial differentiation, multiple integration, topics in vector calculus, and complex numbers and functions.

Prerequisite(s): Grade of C- or better in MATH 1521G or MATH 1521H.

MATH 2992. Directed Study

1-3 Credits

May be repeated for a maximum of 6 credits. Graded S/U. **Prerequisite:** consent of the instructor.

MGMT-MANAGEMENT

MGMT 2110. Principles of Management 3 Credits (3)

An introduction to the basic theory of management including the functions of planning, organizing, staffing, leading, and controlling; while considering management's ethical and social responsibilities.

MKTG-MARKETING (MKTG)

MKTG 180. Level 1, PGA's PGM Education Program (Part 1) 3 Credits (3)

Level 1 Part 1 of the PGA PGM Education Program. Introduction to the Policies and Procedures of the PGA Golf Mgt. Program and the PGA of America. Students will complete the PGA Qualifying Level, Facility Management 1A (Tournament Ops A, Rules of Golf B, and Career Enhancement B), and the corresponding Work Experience Activities. Additional course fee required. Consent of Instructor required. Restricted to: MKTG majors.

MKTG 181. Level 1, PGA's PGM Education Program (Part 2) 3 Credits (3)

Level 1 Part 2 of the PGA PGM Education Program. This class will focus on Teaching and Coaching 1, the corresponding PGA Work Experience Activities, and PGA Teaching Seminars. Additional course fee required. Consent of Instructor required. Restricted to: MKTG majors.

MKTG 2110. Principles of Marketing

3 Credits (3)

Survey of modern marketing concepts and practices focusing on the marketing mix: product, pricing, promotion, and distribution strategies. Topics include: the marketing environment, consumer behavior, marketing research, target marketing, and the ethical and social responsibilities of marketers. May be repeated up to 3 credits.

Prerequisite(s): BUSA 1110.

MKTG 280. Level 1, PGA's PGM Education Program (Part 3) 3 Credits (3)

Level 1 Part 3 of the PGA PGM Education Program. This class will focus on Facility Management 1B (Business Planning A, Customer Relations A, Golf Car A, Merchandising A, Turfgrass A), Level 1 Checkpoint Exams, and the corresponding PGA Work Experience Activities. Students will also be required to provide an internship evaluation report. Additional course fee required. Consent of Instructor required. Restricted to: MKTG majors.

MKTG 281. Level 2, PGA's PGM Education Program (Part 1) 3 Credits (3)

Level 2 Part 1 of the PGA PGM Education Program. This class will focus on Teaching and Coaching 2, Teaching and Coaching Seminars, and the corresponding PGA Work Experience Activities. Additional course fee required. Consent of Instructor required. Restricted to: MKTG majors.

MUSC-MUSIC

MUSC 1110G. Music Appreciation: Jazz

3 Credits (3)

This course explores the ideas of music in society and its cultural relevance and is designed to increase the students' appreciation of music as well as to enhance their listening skills. Students are introduced to various periods, styles, and composers of music and become acquainted with knowledge and appreciation of Jazz from various cultures and times.

MUSC 1130G. Music Appreciation: Western Music 3 Credits (3)

This course explores the ideas of music in society and its cultural relevance and is designed to increase the students' appreciation of music as well as to enhance their listening skills. Students are introduced to various periods, styles, and composers of music and become acquainted with knowledge and appreciation of Western music from various cultures and times.

MUSC 1210. Fundamentals of Music for Non-majors 3 Credits (3)

A beginning course in the fundamentals of music, this course includes notation, scales, key signatures and intervals. Aural comprehension is introduced through singing intervals, scales and triads and dictating simple rhythmic and melodic patterns and students explore the basic components of music. Traditional Grading with RR.

MUSC 1310. Recital Attendance

0.5 Credits (.5+1P)

This course is for music students to attend and participate in a good number of convocation, concert, and recital performances, creating a wider appreciation for the performing arts. May be repeated up to 4 credits. Restricted to: Music and Music Education majors. S/U Grading with RR. Restricted to Las Cruces campus only.

MUSC 1410. Introduction to Music Education

2 Credits (2)

This course is an overview of teaching in the music classroom through readings and observations. Students will be introduced to the skills needed to become a reflective educator, develop observation techniques, and demonstrate knowledge of the current state of the profession. Restricted to Las Cruces campus only.

MUSC 1440. Class Voice I

1 Credit (1)

Group instruction in voice and vocal pedagogy for instrumental Music Education majors, offering basic principles of healthy vocal production with particular attention to diction, development of vocal range, and the ability to impart that knowledge to elementary, junior and/or high school age students. Restricted to: Music Education majors. Traditional Grading with RR. Restricted to Las Cruces campus only.

MUSC 1450. Ear Training I

1 Credit (1)

To develop the ability to accurately hear, identify, sing and notate musical elements including rhythm, melody, intervals and harmony Traditional Grading with RR. Restricted to Las Cruces campus only.

Prerequisite(s): Passing the Theory Placement exam or making a C or better in MUSC 1210.

MUSC 1451. Ear Training II

1 Credit (1)

To develop the ability to accurately hear, identify, sing and notate musical elements including rhythm, melody, intervals and harmony Restricted to Las Cruces campus only.

Prerequisite(s): Grade of C- or better in MUSC 1450.

MUSC 1460. Music Theory I

3 Credits (3)

Introduction to vocabulary and syntax of 4-voice 18th c. chorale music through study and harmonic analysis.

Prerequisite(s): Passing the Theory Placement exam or making a C or better in MUSC 1210.

MUSC 1461. Music Theory II

3 Credits (3)

Expansion of vocabulary and syntax of 4-voice 18th c. chorale music through study, harmonic analysis, and part writing.

Prerequisite(s): Grade of C or better in MUSC 1460.

MUSC 1470. Functional Piano I

2 Credits (2)

Scales, chords, memorization. Harmonization of simple melodies with the ability to play simple melodies and rhythms. May be taken for unlimited credit. Restricted to music majors. No S/U option.

MUSC 1471. Functional Piano II

2 Credits (2)

Scales, chords, memorization. Harmonization of simple melodies with the ability to play simple melodies and rhythms. May be taken for unlimited credit. Restricted to music majors. No S/U option.

Prerequisite: MUSC 1470 or consent of instructor.

MUSC 1472. Functional Piano III

2 Credits (2)

For music majors preparing for the Piano Proficiency Examination. May be taken for unlimited credit. Restricted to music majors. No S/U option.

Prerequisite: MUSC 1471 or consent of instructor.

MUSC 1992. Applied Music

1-2 Credits

Private or group instruction for non-music majors, secondary instruments, and music majors preparing for 200-level applied music. May be taken for unlimited credit.

MUSC 2110. Chamber Ensemble

1 Credit (1)

This course is an exploration of chamber ensembles, allowing students to develop their abilities with their instruments in a group setting. Students will gain a broader understanding of chamber ensemble through study of musical history, as well as various practice exercises and performances. May be repeated up to 16 credits. Restricted to Las Cruces campus only. **Prerequisite(s)**: by audition only.

MUSC 2120. Major Ensemble

1 Credit (1)

This course is an exploration of major ensembles, allowing students to develop their abilities with their instruments in a group setting. Students will gain a broader understanding of major ensemble through study of musical history, as well as various practice exercises and performances. May be repeated up to 10 credits. Restricted to Las Cruces campus only. **Prerequisite(s):** by audition only.

MUSC 2130. Jazz Ensemble

1 Credit (1)

This course is an exploration of jazz ensembles, allowing students to develop their abilities with their instruments in a group setting. Students will gain a broader understanding of jazz ensemble through study of musical history, as well as various practice exercises and performances. May be repeated up to 10 credits. Restricted to Las Cruces campus only. **Prerequisite(s):** By audition only.

MUSC 2132. Percussion Ensemble

1 Credit (1)

Study and performance of contemporary percussion ensemble literature. May be repeated up to 5 credits. Restricted to Las Cruces campus only. **Prerequisite(s):** by audition only.

MUSC 2151. An Introduction to World Music, Jazz and Music Research 3 Credits (3)

Introduces world music and jazz within a historical and cultural context, considering significant musical figures, forms, genres, styles, and representative works. A major component will be the development of effective research and scholarly writing skills for the music major or minor. May be repeated up to 3 credits. Restricted to: Music majors and minors. majors. Restricted to Las Cruces campus only.

MUSC 2210. Diction I

2 Credits (2)

This course is designed to prepare students for singing in multiple languages using concepts of the International Phonetic Alphabet. Students will work to master the basics of phonetic singing to improve their overall musical abilities. Restricted to Las Cruces campus only.

MUSC 2220. Diction II

2 Credits (2)

This course serves as a continuing study in the concepts of the International Phonetic Alphabet. Students will continue to improve and practice their diction to develop their singing and musical abilities in order to begin the mastery of lyric diction. Restricted to music majors. Restricted to Las Cruces campus only.

Prerequisite: MUSC 2210 or consent of instructor.

MUSC 2240. Music History and Literature: Antiquity through Baroque 3 Credits (3)

Surveys Western art music within a historical and cultural context, considering significant musical figures, forms, genres, styles, and representative works from antiquity through the end of the Baroque era. An additional emphasis will be given to effective research and scholarly writing skills. Restricted to: M ED,MUSC majors.

Prerequisite(s): A grade of C- or better in MUSC 1450, 1460, and 2151.

MUSC 2310. Sound and Music Technology

1 Credit (1)

This course serves as an overview of current technologies and principles for the recording and production of sound, and the use of computer-based technologies for the production of music. Restricted to: MUSC,M ED majors. Traditional Grading with RR. Restricted to Las Cruces campus only.

Prerequisite(s): MUSC 1460.

MUSC 2451. Ear Training III

1 Credit (1)

Continuation of MUSC 1451, advanced sight singing, dictation. Restricted to Las Cruces campus only.

Prerequisite(s): Grade of C- or better in MUSC 1451.

MUSC 2452. Ear Training IV

1 Credit (1)

Continuation of MUS 2451, advanced sight singing, dictation. Restricted to Las Cruces campus only.

Prerequisite(s): Grade of C or better in MUSC 2451 and MUSC 2460.

MUSC 2460. Music Theory III

3 Credits (3)

Analysis of Baroque and Classical Music. Vocabulary and syntax of 18th and 19th c. Western art music through study, chordal/formal analysis, and composition. Restricted to Las Cruces campus only.

Prerequisite(s): Grade of C or better in MUSC 1461.

MUSC 2461. Music Theory IV

3 Credits (3)

Analysis of Romantic, Post-Romantic, Impressionist, and Twelve-Tone Music. Vocabulary and syntax of late 19th and early 20th c. Western art music through study, micro/macro analysis, and composition. Restricted to Las Cruces campus only.

Prerequisite(s): Grade of C or better in MUSC 2460.

MUSC 2470. Functional Piana IV

2 Credits (2)

For music majors preparing for Piano Proficiency Examination. May be taken for unlimited credit. Restricted to music majors. No S/U option. **Prerequisite:** MUSC 1472 or consent of instructor.

MUSC 2510. Applied Music I

1-4 Credits

Individual instruction to develop technique, musicianship, performance and improvisational skills, as well as knowledge of significant repertoire. May be repeated up to 16 credits. Consent of Instructor required. Restricted to: Music and Music Education majors. Traditional Grading with RR. Restricted to Las Cruces campus only.

Prerequisite(s): Audition.

MUSC 2993. Opera Workshop

1 Credit (1)

Study, translation, analysis, rehearsal and performance of opera. May be repeated up to 10 credits. Restricted to Las Cruces campus only.

Prerequisite(s): by audition only.

MUSC 2996. Special Topics I

1-3 Credits

Emphasis on special areas of music; designed for highly motivated students. May be taken for unlimited credit.

NA - NURSING ASSISTANT (NA)

NA 101. Nursing Assistant Theory and Lab 6 Credits (5+3P)

Nurse aide skills with emphasis on a bio-psychosocial-cultural approach to client care. Practice of these skills is provided in the laboratory as well as at a clinical site. Successful completion of the course prepares and qualifies the student to take the NACES certification examination. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): (CCDR 110N with C or better OR appropriate placement score) and (CCDE 110N with C or better OR appropriate placement score) and (CCDM 103N with C or better OR appropriate placement score).

NA 102. Sterile Processing Technician 4 Credits (3+3P)

This course will prepare the student to work as a Sterile Processing Technician, performing critical functions that support both the hospital and Operating Room. The student will learn about infection control, instrument reprocessing, decontamination, disinfection, and sterilization. All critical aspects of sterile processing will be covered to include applicable standards and regulations. This field is constantly evolving and those desiring to work in this profession must ensure that they stay abreast of the science behind the discipline. Restricted to Community Colleges campuses

Prerequisite(s): CCDE 110 N General Composition Placement exam scores, or specific course work.

NA 104. Nursing Assistant Fundamentals 3 Credits (3)

This course prepares students for employment as a Nursing Assistant in a Long Term Care Facility. Theory and basic nursing care skills will be taught with an emphasis being placed on the psychosocial-cultural approach to client care. Students will learn communication skills, basic anatomy and physiology, growth and development, infection control, body mechanics, basic nutrition, client/resident elimination needs, the client/resident unit, vital signs, range of motion exercises, bed making, rehabilitation and restorative care, client admission and discharge, common health problems, dealing with death and dying, and basic medical terminology. NA 104 and NA 104L (laboratory) must be successfully completed with a C- or better in order to continue to NA 105 Nursing Assistant Clinical. NA 105 must also be successfully completed with a C- or better to be eligible to take the state certification competency examination. Attendance is required to meet the federal requirements for training hours and content prior to direct contact with a patient/resident and the state competency examination. Students must test out of all CCDE and CCDR courses and eligible to take ENGL 1110G to enroll in this course. Restricted to Community Colleges campuses only. Corequisite(s): NA 104 L.

NA 104 L. Nursing Assistant Fundamentals Lab 1 Credit (3P)

This course prepares students for employment as a Nursing Assistant in a Long Term Care Facility. Students will learn and demonstrate personal care skills including bathing, grooming, dressing, toileting, assisting with eating and hydration, skin care, transfers and positioning. Students will also learn and demonstrate the use of assistive devices, and how to maintain resident safety, dignity and privacy. NA 104 & NA 104L must be successfully completed with a C- or greater in order to continue to NA 105 Clinical. NA 105 must be successfully completed with a C- or greater to be eligible to take the state certification competency examination.

Prerequisite(s)/Corequisite(s): NA 104. Prerequisite(s): English COMPASS score of 35 or greater or CCDE 110N, and reading COMPASS score of 55 or greater or CCDR 105N. Restricted to Community Colleges campuses only.

NA 105. Nursing Assistant Clinicals 4 Credits (3+3P)

Extension of basic fundamentals of personal care, including theory, skills and clinical experience leading to the certified Nursing Assistant Examination at the conclusion of the semester. Continuation of NA 104. Requires a C or better to pass. Restricted to: Community Colleges only. **Prerequisite(s):** C or better in NA 104 or consent of instructor.

NA 109. Phlebotomist Basic 4 Credits (2+4P)

This course provides the latest information, techniques, skills, and equipment for blood and specimen collection based on the standards of the Clinical and Laboratory Standards Institute, Needlestick Prevention Act, Joint Commission 2008 National Patient Safety Goals, OSHA and CDC. An advanced skills lab is included in the course to provide a 'hands-on' practice experience and a 30 hour practicum in a supervised work environment collecting blood and specimens on actual patients for laboratory tests. Attendance is mandatory. Prepares students for employment as a phlebotomist in health care settings. Requires a 'C' or better to pass. Upon successful completion of the course, student has the opportunity to test for National Healthcareer Certification. Consent of Instructor required.

Prerequisite(s)/Corequisite(s): BIOL 1130 or BIOL 2225. Restricted to Community Colleges campuses only.

NA 110. Electrocardiogram Technician Basic 4 Credits (3+3P)

Prepares students for employment as an Electrocardiogram Technician. Includes basic theory of the cardiovascular system, cardiac rhythm interpretation, 12 lead ECG lead placement, and ECG equipment trouble shooting. The course includes an advanced skills laboratory for 'handson' practice and 16 hours of supervised clinical in the work environment assisting with ECG testing. Attendance is mandatory. Course requires a grade of 'C' or better to pass. Upon successful completion of course, student has the opportunity to test for National Healthcareer Certification. Restricted to Community Colleges campuses only. Prerequisite(s): BIOL 1130 OR BIOL 2210 & BIOL 2225.

NA 111. Alzheimer/Dementia Care Focus 3 Credits (3)

Students will learn respectful care of Alzheimer/Dementia persons while ensuring their dignity, maximizing safe independence focusing on strengths and abilities.

Prerequisite(s)/Corequisite(s): NA 104 or NA 101. Restricted to: Community Colleges only.

NA 113. Sterile Processing Practicum 5 Credits (1+4P)

This course will allow students to get hands on training in the Sterile Processing Department. They will perform critical functions learned in the Sterile Processing Technician course. They will apply principles of medical asepsis and infection control and by the end of the practicum be able to independently function in all work areas of the Sterile Processing Department. This field is constantly evolving and those desiring to work in this procession must ensure that they stay abreast of the science behind the discipline. Restricted to Community Colleges campuses Prerequisite(s)/Corequisite(s): NA 102. Prerequisite(s): CCDE 110 N.

NA 115. Phlebotomist Technician 6 Credits (3+6P)

Basic theory and skills of phlebotomy following OSHA and Center for Disease Control guidelines. Prepares students for the requirements of testing for the ASCP certification exam and employment in a healthcare organization as a phlebotomist in licensed settings. Laboratory hours include infection control skills & practice, patient assessment & teaching, and practice in venipuncture. Clinical time includes clinical laboratory processes and operations, patient assessment, venipuncture, and exposure to clinical policies and procedures. Upon successful completion students are workforce ready.

Prerequisite(s)/Corequisite(s): OEEM 101. Restricted to Community Colleges campuses only.

NA 204. Patient Care Technician 4 Credits (3+3P)

This course will prepare Certified Nursing Assistants (CNAs) to work in the acute care setting through an expansion of their existing basic skill set. Students will acquire expanded acute care skills, critical thinking skills, and knowledge in caring for patients of all ages. Currently CNA certified. Restricted to Community Colleges campuses only.

Prerequisite(s): (NA 104, NA 105, NA 109, NA 110, AHS 120, and (BIOL 1130 or (BIOL 2210 & BIOL 2225)).

Corequisite(s): NA 205.

NA 205. Patient Care Technicians Practicum 4 Credits (1+9P)

This course will prepare Certified Nursing Assistants (CNAs) to work in the acute care setting through an expansion of their existing basic skill set. Students will acquire expanded acute care skills, critical thinking skills, and knowledge in caring for patients of all ages. Students will go to acute care settings to practice newly acquired skills. Must have a 'C' or better to pass. Restricted to Community Colleges campuses only.

Prerequisite(s): (NA 104, NA 105, NA 109, NA 110, AHS 120, & (BIOL 1130 or (BIOL 2210 & BIOL 2225))) Currently CNA Certified.

Corequisite(s): NA 204.

NA 209. Phlebotomy Laboratory Technician 4 Credits (2+4P)

A continuation of NA 109, Phlebotomy Basic. This course furthers the experience, knowledge and skills of the phlebotomist by providing advanced specimen collection techniques, skills to assist with lab management, patient data processing, quality control measures, and customer service. Completion of thirty clinical hours and fifty successful venipunctures are required. Attendance in mandatory. Requires a final grade of 'C' or better to pass. Consent of Instructor required. Restricted to Community Colleges campuses

Prerequisite(s)/Corequisite(s): ENGL 1110G or ENGL 1110H or ENGL 1110M. Prerequisite(s): (BIOL 1130 or BIOL 2310 & BIOL 2225), and AHS 120, and NA 109.

NA 210. Administrative Procedures for Medical Assistants 4 Credits (4)

This course will provides students with the administrative procedures needed for a medical assistant. Skills will include creating awelcoming environment, cultural considerations, office safety, opening and closing procedures, computer operation andmanagement, written and telephonic communications, financial procedures, patient scheduling, medical record management, andmedical insurance, billing, and coding. Restricted to Community Colleges campuses

Prerequisite(s)/Corequisite(s): NA 212. Prerequisite(s): MATH 1215, and ENGL 1110G, and AHS 120, and BIOL 1130 or BIOL 2225.

NA 212. Medical Assistant Capstone Course 6 Credits (6)

This course provides the student with entry-level theory and limited 'hands-on' training in basic and routine clinical office tasks. The course will equip the Medical Assistant (MA) student with the competencies required to perform in a medical office under the direct supervision of a physician. The graduate will be able to assist the physician with physical exams, ECGs, phlebotomy, and minor surgical procedures. CNA Certification within the last 5 years.

Prerequisite(s): NA 105, NA 110, NA 109, AHS 120, BIOL 1130, BOT 208, HIT 228, HIT 248.

NA 214. Medical Assistant Practicum 6 Credits (1+6P)

This course is the practicum for NA 212 Medical Assistant Fundamentals Capstone Course. Students will prepare for a career as a medical assistant in medical offices and clinics. During practicum students will observe and participate in 180 hours in a supervised work environment using knowledge and skills learned in NA 212. This course includes weekly post-practicum conferences with the instructor. The student will be evaluated by both the employer and the instructor. Requires a 'C' or better to pass. Upon successful completion the student may be eligible to test for National Certification. Students who have been CNA Certified within the last 5 years can use this to enroll into this course. Consent of Instructor required.

Prerequisite(s)/Corequisite(s): NA 212. Prerequisite(s): NA 105, NA 110, NA 109, AHS 120, BIOL 1130, BOT 208, HIT 228, HIT 248. Restricted to Las Cruces campus only.

NAV-NAVAJO (NAV)

NAV 101. Introduction to Navajo Studies 3 Credits (3)

Covers geography, demography, institutions of modern Navajo society with historical overview. Restricted to: Community Colleges only.

NAV 111. Elementary Navajo I

4 Credits (4)

Navajo for beginners with emphasis on speaking skills.

Prerequisite: not open to Navajo-speaking students except by consent of instructor.

NGEC-NATURAL GAS ENGINE COMP

NGEC 133. Natural Gas Engine Repair Technology 5 Credits (5)

This course will cover the engine fundamentals, cylinder head and valve trains, engine block, engine servicing, lubrication and cooling Systems. Restricted to: Natural Gas Engine Compression majors. Restricted to Carlsbad campus only.

NGEC 175. Natural Gas Compression Technology I 4 Credits (4)

This course delivers an introduction to the theory, application, rotary, and centrifugal natural gas compressor including operating principles, maintenance, and repair of the reciprocating, identification of the component parts and their functions, methods of balancing, and lubrication systems, and design characteristics. This course will also include calculations of gas flow, compressor sizing, rod loads, compressor analysis charts and horsepower ratings. In addition, this course will cover safety, precision measurement, use of the manuals, use of tools, and proper adjustments will be included with overhaul exercises. Restricted to: Natural Gas Engine Compression majors. Restricted to Carlsbad campus only.

NGEC 185. Natural Gas Compression Technology II 4 Credits (4)

This course delivers the principles of operation for natural gas engines and compressors. It includes process of startup and shutdown of natural gas compressor skid. Restricted to: Natural Gas Engine Compression majors. Restricted to Carlsbad campus only.

Prerequisite(s): Grade of C or better in NGEC 175.

NGEC 245. Natural Gas Engine Management and Control Technology 5 Credits (5)

This course delivers operational and application studies of Engine Management System Fundamentals, Sensors, Engine Inspection, and Engine Management Fault Investigation. Restricted to: Natural Gas Engine Compression majors. Restricted to Carlsbad campus only.

NGEC 246. Fuel and Emissions Technology 5 Credits (5)

This course delivers operational and application studies of fuel components and emissions control system. Restricted to: Natural Gas Engine Compression majors. Restricted to Carlsbad campus only.

NGEC 295. Special Topics 2 Credits (2)

Topics are to be announced in the Schedule of Classes. The topic and project are to be discussed and implemented between faculty member and student. Student gives presentation to class at the end of the term of study. All-Natural Gas Compression Technology classes in the NGEC Program must be completed or in progress before enrolling in this course. Restricted to: Natural Gas Engine Compression majors. Restricted to Carlsbad campus only.

NURS-NURSING (NURS)

NURS 110. Independent Study 1 Credit (1)

This Freshman seminar provides an introduction to the university and its resources, an orientation to the pre-nursing curriculum, and overview of concepts for professional nursing practice. Emphasis is placed on exploring the nurse's role as an integral member of the healthcare team across multiple contexts and settings, and developing a professional identity. Consent of Instructor required.

NURS 120. Introduction to Pharmacology 3 Credits (3)

General principles of pharmacology including methods of administration, effect on the body, interactions with other drugs, and classification of drugs. Focus on the health care provider's role in safe pharmacologic intervention. May be repeated up to 3 credits. Crosslisted with: HIT 120. Restricted to Community Colleges campuses only.

NURS 130. Foundations of Pharmacology 3 Credits (3)

This course provides the nursing student with an introduction to the foundations of pharmacology including: science of drug action, principles of medication administration, accurate calculation of drug doses, medication therapy across the lifespan, application of medications to treat health alterations, normal and adverse responses by the client to medication therapy, medication safety, medication regulation, national patient safety goals, and appropriate nursing interventions to achieve the desired goals of medication therapy. Only students who have been admitted to the nursing program may enroll in this course. Students must be admitted into the Nursing Program to enroll in this course. Restricted to: Community Colleges only.

Corequisite(s): NURS 147 & NURS 149. Restricted to: NUR majors.

NURS 134. Foundation of Nursing Skills and Assessment 3 Credits (1+6P)

This course provides nursing students with introductory nursing knowledge related to performance of nursing skills and assessment including: techniques of fundamental nursing care, basic and intermediate nursing skills, and foundational physical assessment techniques associated with care across the lifespan. Open to students who have been accepted into the nursing program. Students must be admitted into the Nursing Program to enroll in this course. Restricted to: NUR majors. Restricted to: Community Colleges only.

Corequisite(s): NURS 136 & NURS 137 or permission of the Program Director.

NURS 136. Foundations of Nursing Practice 6 Credits (4+6P)

This course will introduce the nursing student to foundational theoretical concepts of professional nursing practice, the nursing process, and foundational nursing skills. It includes developmental concepts related to clients across the lifespan. Clinical experiences in the simulation lab, long-term care, the community, and rehabilitation settings will provide the student with the opportunity to apply learned skills to provide total care to meet needs of one adult client and to develop care planning skills related to actual problems. Students must be concurrently enrolled in both the lecture and lab sections of the course. Only students who have been admitted to the nursing program may enroll in this course. Students must be admitted into the Nursing Program to enroll in this course. Restricted to: NUR majors. Restricted to: Community Colleges only. Corequisite(s): NURS 134, NURS 137.

NURS 137. Care of Geriatric Patient 3 Credits (3)

This course will introduce the nursing student to foundational concepts of age-appropriate/specific care of the older adult who represents the largest population of individuals placing demands on the healthcare system. It includes basic and complex concepts and issues related to care of the older client across the care continuum, provision of cost-effective care in a resource sparse environment. Only students who have been admitted to the nursing program may enroll in this course. Students must be admitted into the nursing program to enroll in this course. Restricted to: NURS majors. Restricted to Community Colleges campuses only.

Corequisite(s): NURS 134 & NURS 136.

NURS 140. Pathophysiology for Allied Health Professionals 3 Credits (3)

Introduction to the nature of disease and its effect on body systems. Deals with the disease processes affecting the human body via an integrated approach to specific disease entities. Includes a review of normal functions of the appropriate body systems. Diseases are studied in relationship to their etiology, pathology, physical signs and symptoms, diagnostic procedures, complication, treatment modalities, and prognosis. Restricted to Allied Health and Health Information Technology majors. Restricted to:Community Colleges only.

NURS 146. Common Health Deviations 6 Credits (4+6P)

Common health deviations and the manner by which they alter various body functions are explored. The role of the licensed practical nurse in assisting clients with common health deviations is presented. Ethical and legal implications and the role of the practical nurse are also considered. The licensed practical nursing student will utilize the application of knowledge to client care situation both in the subacute and acute care settings. The nursing process is presented as guide for coordinating client care. Grade of C or better. May be repeated up to 6 credits. Restricted to: NURSING majors. Restricted to Carlsbad campus only. Prerequisite(s): NURS 153, NURS 156, NURS 154, NURS 157, and NURS 210 or consent of program director.

NURS 147. Adult Health I 6 Credits (4+6P)

This course focuses on application of the nursing process and theoretical concepts of care for adults with commonly occurring health problems. Selected clinical learning experiences in the simulation lab, acute care, and community settings will allow the student to continue development of: prioritization skills, proficiency in performance of nursing skills, collaborative skills with clients, families, peers and health care team members, care planning skills related to patient actual, psychosocial, and potential problems in the delivery of total nursing care to meet needs of one adult client. Students must be concurrently enrolled in both the lecture and lab sections of the course. Only students who have been admitted to the nursing program may enroll in this course. Students must be admitted into the Nursing Program to enroll in this course. Restricted to: NUR majors. Restricted to Community Colleges campuses only.

Corequisite(s): NURS 130, NURS 147 lab, & NURS 149.

NURS 149. Mental Health Nursing 3 Credits (2+3P)

This course will allow the nursing student to develop skills necessary to provide nursing care for clients with mental health problems in various health care settings including: common mental health disorders, psychosocial dysfunction, psychosocial safety/substance abuse issues, violence, suicide, restraints, developmental age related pathophysiology, psychopharmacology, cultural/religious considerations, grief/loss, promotion of mental health, and therapeutic communication. Selected clinical learning experiences in the simulation lab, acute care, and community settings will allow the student to develop ability to develop: proficiency in performance of nursing skills, collaborative skills with clients, families, peers and health care team members, care planning skills related to patient actual, psychosocial, and potential problems in the delivery of total nursing care to meet needs of one client across the life span with acute/chronic mental health needs. Students must be concurrently enrolled in both the lecture and lab sections of this course. Only students who have been admitted to the nursing program may enroll in this course. Students must be admitted into the Nursing Program in order to enroll in the course. Restricted to: NUR majors. Restricted to: Community Colleges only.

Corequisite(s): NURS 130, NURS 147, & NURS 149L.

NURS 150. Medical Terminology 3 Credits (3)

Understanding of the basic elements of medical words. Use of medical abbreviations. Same as OEHO 120 and BOT 150. May be repeated up to 3 credits. Crosslisted with: BOT 150, AHS 120 and HIT 150.

NURS 153. Medication and Dosage Calculation 1 Credit (1)

Techniques of dosage calculation for medication and fluid administration. RR applicable. Students must meet NMSU basic skills requirement in mathematics to enroll in this course.

Corequisite(s): NURS 156 and NURS 154.

NURS 154. Physical Assessment 2 Credits (2)

Beginning techniques of physical assessment by systems will be presented using the nursing process as a guide for providing safe client centered care throughout the life span. Grade of C or better is required. May be repeated up to 2 credits. Restricted to: NURSING majors.

Restricted to Carlsbad campus only. **Prerequisite(s):** BIOL 1130 or BIOL 2210. **Corequisite(s):** NURS 153,NURS 156.

NURS 155. Special Topics

1-4 Credits

Specific subjects to be announced in the Schedule of Classes.

NURS 156. Basic Nursing Theory and Practice 6 Credits (4+6P)

Introduction to the nursing profession and the beginning skills of nursing practice as it relates to normalcy. The nursing process is presented as a means of guiding the student in providing safe client centered care. Ethical and legal aspects of nursing practice are also included. Basic clinical nursing skills will be presented and practiced in the nursing lab. The student will perform these skills with clients in an actual health care setting. May be repeated up to 6 credits. Consent of Program Director requires. Restricted to: NURSING majors. Restricted to Carlsbad campus only.

Corequisite(s): NURS 153,NURS 154.

NURS 157. Maternal/Child Health Deviations 8 Credits (6+6P)

The concepts and principles of nursing care of the family from conception to adolescence. Utilizing the nursing process, the student provides safe client centered care to diverse clients and families. Theoretical instruction is applied to client care situation. Students collaborate with clients, families and the interdisciplinary team in meeting health care needs. Experiences may occur in any of the regional health care facilities. Grade of C or better required. May be repeated up to 8 credits. Restricted to: NURSING majors. Restricted to Carlsbad campus only.

Prerequisite(s): NURS 156, NURS 153, and NURS 154.

Corequisite(s): NURS 210.

NURS 201. Special Topics

1-4 Credits

Specific topics to be announced in the Schedule of Classes. May be repeated for a maximum of 10 credits. Restricted to: Community Colleges only.

Prerequisite: admission to the nursing program.

NURS 209. Independent Study

1-4 Credits

Individual studies to meet identified student needs. May be repeated for a maximum of 10 credits. Restricted to: Community Colleges only.

Prerequisite: admission to the nursing program.

NURS 210. Pharmacological Requisites of the Childbearing Family 1 Credit (1)

Basic concepts of pharmacology including pharmacokinetics, pharmacodynamics, and pharmacotherapeutics, and their relationship to nursing care will be discussed focusing on medications commonly utilized with the childbearing family. Medication classes to be discussed include labor and delivery, analgesic, vitamins, respiratory, gynecological, endocrine, and anti-microbial/anti-infective drugs. Grade of C or better required. Restricted to: Carlsbad campus only.

Prerequisite(s): BIOL 2210 and BIOL 2225 and NURS 153, NURS 154 and NURS 156.

Corequisite(s): NURS 157.

NURS 211. Pharmacological Requisites of Simple Health Deviations 1 Credit (1)

Basic concepts of pharmacology including pharmacokinetics, pharmacodynamics, and pharmacotherapeutics, and their relationship to nursing care are addressed focusing on medications related to the psychiatric, gastrointestinal, musculoskeletal, gynecological, hematological, and anti-neoplastic client. Grade of C or better required. Restricted to: Carlsbad campus only.

Prerequisite(s): BIOL 2210 and BIOL 2225 and NURS 153,NURS 154, NURS 156, NURS 157 and NURS 210.

Corequisite(s): NURS 246 and NURS 258.

NURS 212. Pharmacological Requisites of Complex Health Deviations 1 Credit (1)

Basic concepts of pharmacology including pharmacokinetics, pharmacodynamics, and pharmacotherapeutics, and their relationship to nursing care is examined focusing on medications related to complex health deviations. Drug classes to be discussed include cardiovascular, renal, endocrine, and neurological. Grade of C or better required. Restricted to: Carlsbad campus only.

Prerequisite(s): BIOL 2210 and BIOL 2225, and NURS 153, NURS 154, NURS 156, NURS 157, NURS 246, NURS 258, NURS 210 and NURS 211.

Corequisite(s): NURS 256 and NURS 260.

NURS 224. Maternal Child Nursing 5 Credits (4+3P)

This course provides the intermediate nursing student with an in-depth review of care of the childbearing woman, family structures and roles, and nursing care of the child from birth through adolescence. Emphasis includes the care of pre-partum, intra-partum and postpartum clients, the neonate and health deviations in pediatric clients. Clinical experiences in the simulation lab, the community, and acute care settings will provide the student with the opportunity to apply learned skills to provide total care to meet needs of up to two adult, neonatal, or pediatric clients and to apply care planning skills related to actual, psychosocial and potential problems. Students must be concurrently enrolled in both the lecture and lab sections of the course. Only students who have been admitted to the nursing program may enroll in this course. Students must be admitted into the Nursing Program to enroll in this course. Restricted to: NUR majors. Restricted to: Community Colleges only.

Corequisite(s): NURS 235, & NURS 236.

NURS 226. Adult Health II 6 Credits (4+6P)

This course focuses on application of nursing process and theoretical concepts of care for adults with complex health alterations. Selected clinical learning experiences in the simulation lab, acute care, and community settings will allow the student to apply: prioritization skills, maintain proficiency in performance of nursing skills, collaborative skills with clients, families, peers and health care team members, and care planning skills related to patient actual, psychosocial, and potential problems in the delivery of nursing care to meet needs of three adult clients. Students must be concurrently enrolled in both the lecture and lab sections of the course. Only students who have been admitted to the nursing program may enroll in this course. Students must be admitted into the Nursing Program to enroll in this course. Restricted to: NUR majors. Restricted to: Community Colleges only.

Corequisite(s): NURS 224 & NURS 235.

NURS 235. Nursing Leadership and Management 1 Credit (1)

This course introduces the intermediate nursing student to professional practice principles of nursing leadership and management including: health policy and politics, fiscal management & budgeting, conflict management, decision making, interdisciplinary practice, working with teams, roles in disaster planning and management, application of standards of care to risk management, organization of care delivery, health care systems, processes, and practice environments. May be repeated up to 1 credits. Students must be admitted into the Nursing Program to enroll in this course. Restricted to: NUR majors. Restricted to Community Colleges campuses only.

Corequisite(s): NURS 224, NURS 226.

NURS 236. Nursing Preceptorship - Adult Health III 6 Credits (2+12P)

This course is the final course involving care of the patient with acute or chronic illness. It focuses on care of patients with complex or multisystem problems allowing the graduating nursing student to discuss and apply all the skills learned in previous nursing courses. After successfully passing the HESI exam, students have clinical practice with preceptor in various health care settings. Selected clinical learning experiences in the simulation lab, acute care, and community settings will allow the student to: organize care of a group of clients, maintain proficiency in performance of nursing skills, collaborate with clients, families, peers and health care team members, and support care planning skills related to patient actual, psychosocial, and potential problems in the delivery of nursing care to meet needs of the preceptors group of clients. Students must be concurrently enrolled in both the lecture and lab sections of the course. Only students who have been admitted to the nursing program and have successfully completed all level 1, 2 and 3 nursing courses may enroll in this course. Clinical may include inpatient or outpatient care, days, evenings, nights, or weekend experiences. Students are required to work the preceptors assigned schedule. NCLEX Review must be done concurrently. Students must be admitted into the Nursing Program to enroll in this course. Restricted to: NUR majors. Restricted to: Community Colleges only.

Corequisite(s): NURS 201.

NURS 246. Health Deviations I 7 Credits (4+9P)

Introduction to medical/surgical clients, whose health care needs are routine and predictable. Focus is on simple health deviations, including concepts relative to health promotion and maintenance. The nursing process is utilized to provide evidenced based, safe client centered care. Students are expected to apply clinical judgment, communicate and collaborate with clients and the interdisciplinary team in providing care for a group of two to three clients. Grade of C or better required. May be repeated up to 7 credits. Restricted to: Nursing majors. Restricted to Carlsbad campus only.

Prerequisite(s): NURS 153, NURS 156, NURS 154, NURS 157 and NURS 210.

Corequisite(s): NURS 211, NURS 258.

NURS 256. Health Deviations II 8 Credits (4+12P)

Concepts and principles applied to clients with complex health deviations. Building upon knowledge gained in NURS 246, focus will be on acutely ill clients. The nursing process continues to serve as a guide to provide safe, client centered care. The student collaborates with the interdisciplinary team in all aspects of client care. Student experiences the role of the staff nurse under the guidance and direction of the nursing instructor. Grade of C or better required. May be repeated up to 8 credits. Restricted to: Nursing majors. Restricted to Carlsbad campus only.

Prerequisite(s): NURS 153, NURS 154, NURS 156, NURS 157, NURS 210, NURS 211, NURS 246, and NURS 258.

Corequisite(s): NURS 212,NURS 260.

NURS 258. Psychosocial Requisites: A Deficit Approach 3 Credits (2+3P)

Nursing theory and practice as it relates to the care of the client experiencing psychosocial health deviations. The role of the nurse is discussed along with the ethical and legal aspects of care for the client with psychosocial disorders. Building upon the communication skills of listening and responding, the student develops the therapeutic skills of interpersonal relationships. Grade of C or better is required. May be repeated up to 3 credits. Restricted to: Nursing majors. Restricted to Carlsbad campus only.

Prerequisite(s): NURS 153, NURS 154, NURS 156, NURS 157, NURS 210, and NURS 246.

Corequisite(s): NURS 211, NURS 246.

NURS 260. Management of Patients with Health Deviations 2 Credits (2)

A capstone course to the nursing program in which principles in management and delegation to less prepared personnel is explored. A review of leadership roles, legal issues, quality initiatives, informatics and scope of practice is included. Preparation for the NCLEX is an integral portion of the course. Grade of C or better is required. May be repeated up to 2 credits. Restricted to: Nursing majors. Restricted to Carlsbad campus only.

Prerequisite(s): NURS 153, NURS 154, NURS 156, NURS 157, NURS 210,

NURS 211, NURS 246, and NURS 258. Corequisite(s): NURS 212, NURS 256.

NUTR-NUTRITION

NUTR 2110. Human Nutrition 3 Credits (3)

This course provides an overview of nutrients, including requirements, digestion, absorption, transport, function in the body and food sources. Dietary guidelines intended to promote long-term health are stressed.

NUTR 2120. Seminar I - Becoming a Nutrition Professional 1 Credit (1)

This course will introduce students to the field experience, careers, and professions in nutrition. This course is required for students pursuing a Didactic Program in Dietetics verification statement. May be repeated up to 1 credits. Consent of Instructor required. Restricted to: HNDS majors.

OATS-OFFICE ADMINISTRATION TECHNOLOGY SYSTEMS

OATS 101. Keyboarding Basics 3 Credits (2+2P)

Covers the skills necessary to touch type on the computer keyboard using correct techniques. This includes the development of speed, accuracy, and formatting of basic business documents. May be repeated up to 3 credits. Restricted to Community Colleges campuses

OATS 102. Keyboarding: Document Formatting 3 Credits (2+2P)

Designed to improve keyboarding speed and accuracy; introduce formats of letters, tables and reports. A speed and accuracy competency requirement must be met.

Prerequisite: OATS 101 or consent of instructor.

OATS 105. Business English

3 Credits (3)

Training and application of the fundamentals of basic grammar, capitalization, punctuation, basic writing, sentence structure, and editing skills. May be repeated up to 3 credits. Restricted to Community Colleges campuses

OATS 106. Business Mathematics

3 Credits (2+2P)

Mathematical applications for business. May be repeated up to 3 credits. Restricted to Community Colleges campuses

Prerequisite(s): CCDM 103 N or adequate score on math placement

OATS 110. Records Management

3 Credits (3)

Principles, methods and procedures for the selection, operation and control of manual and automated records systems.

OATS 120. Accounting Procedures I

3 Credits (2+2P)

Business accounting principles and procedures. Use of special journals, cash control, and merchandising concepts. Reports for sole proprietorships.

OATS 121. Accounting Procedures II

3 Credits (2+2P)

Continuation of OATS 120, emphasizing accounting principles and procedures for notes and interest, depreciation, partnerships and corporations, cash flow and financial statement analysis. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): OATS 120 or ACCT 2110.

OATS 140. Payroll Accounting

3 Credits (2+2P)

Payroll procedures including payroll tax forms and deposits. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): ACCT 2110 or OATS 120.

OATS 150. Medical Terminology

3 Credits (3)

Understanding of the basic elements of medical words. Use of medical abbreviations. Same as NURS 150 and OEHO 120. May be repeated up to 3 credits. Crosslisted with: NURS 150, AHS 120 and HIT 150. Restricted to Community Colleges campuses only.

OATS 169. Spanish Grammar for Business Administration 3 Credits (3)

Introductory course in Spanish grammar and practical business terms required for the proper application of fundamental oral and written business communication skills for Spanish speakers in the field of business administration. Restricted to Community Colleges campuses only.

Prerequisite(s): Spanish-speaking ability and computer keyboarding ability.

OATS 170. Office Communications in Spanish I 3 Credits (3)

Develop oral and written communications skills of native or near-native speakers of Spanish. The student will learn basic letter writing skills, customer service techniques, and telephone etiquette in Spanish. Spanish speaking ability is required to enroll in this course. May be repeated up to 3 credits. Consent of Instructor required. Restricted to Community Colleges campuses

OATS 171. Office Communications in Spanish II 3 Credits (3)

Develop oral and written communications skills of native or nearnative speakers of Spanish. Emphasis placed on learning the office assistant's role within the office environment. Compose complex business correspondence and learn to make international travel arrangements. May be repeated up to 3 credits. Consent of Instructor required. Restricted to Community Colleges campuses **Prerequisite(s):** OATS 170, Spanish speaking ability.

OATS 191. Taking Minutes & Proofreading

3 Credits (3)

Preparation and practice producing minutes suited for different meeting types and purposes. Provides strategies to prepare for meetings, to record proceedings, and to transcribe minutes while incorporating proofreading skills practice. Topics include legal requirements, meeting types, minute formats, and duties/expectations of the minute taker and the meeting chair. Graded: S/U. May be repeated up to 3 credits. Restricted to Community Colleges campuses

OATS 202. Keyboarding Document Production 3 Credits (2+2P)

Further development of keyboarding speed and accuracy. Production of complex letters, memos, tables, reports and business forms. A speed and accuracy competency requirement must be met. Restricted to Community Colleges campuses

OATS 203. Office Equipment and Procedures I 3 Credits (2+2P)

Office organization, telephone techniques, equipment and supplies, handling meetings, human relations, mail procedures, and travel. May be repeated up to 3 credits. Restricted to Community Colleges campuses

OATS 205. Accounting Software I 3 Credits (2+2P)

Introduction to accounting software. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): Working knowledge of computers and accounting or consent of instructor.

OATS 206. Accounting Software II

3 Credits (2+2P)

Accounting software and office applications. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): OATS 121 or OATS 215.

OATS 207. Machine Transcription

3 Credits (2+2P)

Creating office documents using transcribing equipment and word processing software. Emphasis on proofreading, editing and grammar. May be repeated up to 3 credits. Restricted to Community Colleges campuses

Prerequisite(s): BOT 105.

OATS 208. Medical Office Procedures

3 Credits (2+2P)

Current computerized and traditional administrative medical office procedures will be introduced. Practical knowledge on managing required record keeping in a medical office environment will be emphasized. May be repeated up to 3 credits. Restricted to Community Colleges campuses **Prerequisite(s)**: HIT 150 or AHS 120, and computer keyboarding ability or consent of instructor.

OATS 209. Business and Technical Communications 3 Credits (3)

Effective written communication skills and techniques for career success in the work place. Composition of letters, memos, short reports, forms, and proposals, and technical descriptions and directions.

Prerequisites: ENGL 1110G and computer keyboarding ability or consent of instructor.

OATS 211. Information Processing I

3 Credits (2+2P)

Defining and applying fundamental information processing concepts and techniques using the current version of leading software. May be repeated up to 6 credits. Restricted to Community Colleges campuses

OATS 213. Word Processing I

3 Credits (2+2P)

Operation and function of a word processor. Specific equipment to be announced in the Schedule of Classes.

Prerequisite: OATS 101 or keyboarding proficiency.

OATS 214. Word Processing II

3 Credits (2+2P)

Advanced operation and functions of a word processor. Specific equipment to be announced in the Schedule of Classes.

Prerequisite: OATS 213 or consent of instructor.

OATS 215. Spreadsheet Applications

1-3 Credits

Use of spreadsheets to include graphics and business applications. Same as OECS 215. May be repeated under different subtitles listed in the Schedule of Classes.

OATS 217. Powerpoint Presentation

3 Credits (3)

Comprehensive, hands-on approach to learning and applying basic and advanced features of PowerPoint. These include text enhancements, objects, fills, colors, animation, charts, sound, video, and hyperlinks. Students demonstrate appropriate audience and communication tools to deliver presentations.

Prerequisites: OATS 211 or ability to demonstrate keyboarding and Windows proficiency.

OATS 218. Information Processing II

3 Credits (2+2P)

Advanced information processing techniques using current version of leading software. May be repeated for a maximum of 6 credits.

Prerequisite: OATS 211 or consent of instructor.

OATS 220. Internship in Business Office Technology 2 Credits (2)

Experience in a supervised office position. Student must work at least eight hours per week. May be repeated for a maximum of 4 credits. **Prerequisites:** sophomore standing and consent of instructor.

OATS 221. Internship I

1-3 Credits

Work experience that directly relates to a student's major field of study that provides the student an opportunity to explore career paths and apply knowledge and theory learned in the classroom. Internships may be paid or unpaid. Students are supervised/evaluated by both the employer and the instructor. C- or better in the course is required. Consent of Instructor required. Restricted to: BOT,HIT. majors. Restricted to Community Colleges campuses

OATS 222. Internship II

1-3 Credits

Continuation of OATS 221. May be repeated up to 6 credits. Consent of Instructor required. Restricted to: OATS & HIT majors. Graded: S/U Grading (S/U, Audit). Restricted to Community Colleges campuses only. **Prerequisite(s):** OATS 221 and consent of instructor.

OATS 223. Medical Transcription I

3 Credits (2+2P)

Concepts in medical transcription are introduced on how to produce a variety of reports required in a medical office or facility utilizing accurate medical terminology, spelling, grammar, and document formatting. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): HIT 150 or AHS 120 and HIT 158 and OATS 209.

OATS 228. Medical Insurance Billing

3 Credits (2+2P)

Comprehensive overview of the insurance concepts and applications required for successfully and accurately completing and submitting insurance claims and reimbursement processes for various insurance carriers, both private and government, will be emphasized. May be repeated up to 3 credits. Restricted to Community Colleges campuses **Prerequisite(s)**: HIT 150 or AHS 120.

OATS 233. Advanced Medical Transcription

3 Credits (2+2P)

Builds upon the concepts introduced in Medical Transcription I providing greater understanding of how to produce advanced reports dictated by physicians with increasing speed and accuracy. Emphasis will be on proofreading and editing of operative reports, patient history and physicals, office notes, labor and delivery reports, consultation reports, discharge summaries, and other medical reports. May be repeated up to 3 credits. Consent of Instructor required. Restricted to Community Colleges campuses only.

Prerequisite(s): OATS 223 and HIT 130.

OATS 239. Personal Development

3 Credits (3)

Development of a marketable, employable office systems person, to include interview, voice, manners, and apparel.

OATS 240. Introduction to Individual Taxation

3 Credits (3)

Overview of Individual Federal Taxation; awareness of tax problems pitfalls and planning opportunities; focus on individual personal financial concerns and tax planning. One semester of accounting principles/procedures is recommended.

OATS 241. Auditing and Business Issues

3 Credits (3)

Introduction to basic auditing concepts, the purpose for the auditing process, and requirements of persons assisting with the audit process. The course will also deal with issues of business law including contracts, sales, torts, strict liability, and business ethics. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): OATS 120 or ACCT 2110.

OATS 244. Tax Preparation

3 Credits (3)

Introduces basic federal and state tax codes for preparing individual income tax returns. Emphasis on use of tax software.

Prerequisite: keyboarding proficiency.

OATS 250. Electronic Office Systems

3 Credits (2+2P)

Management of the electronic office. Office use of computers, printers, fax machines, copiers, and scanner concepts will be covered.

Prerequisite: OATS 211.

OATS 255. Special Topics

1-4 Credits

Specific subjects to be announced in the Schedule of Classes.

OATS 260. Bookkeeping Simulation Capstone

3 Credits (2+2P)

Refines the professional and technical skills students have learned while completing the Bookkeeping Assistant Option curriculum by demonstrating how coursework ties together. Designed as a bookkeeping assistant capstone course.

Prerequisite(s): OATS 121 or ACCT 2110, OATS 140, OATS 205, and OATS 244, or consent of instructor.

OATS 270. Office Administration Technology Capstone 3 Credits (2+2P)

Refines professional skills learned in the BOT program and ties all BOT coursework together. May be repeated up to 3 credits. Consent of Instructor required. Restricted to Community Colleges campuses

Prerequisite(s): OATS 102 or OATS 129; and OATS 120; and OAT S 209 or ENGL 2210G; and OATS 211 or OECS 211.

OEBM-BIOMEDICAL TECHNOLOGY (OEBM)

OEBM 140. Applied Human Biology for Biomedical Technology 3 Credits (3)

Essential human biology, anatomy, physiology and medical terminology for biomedical equipment technicians. Focus on the vocabulary necessary for effective communication in the hospital environment as part of the health care team. Restricted to: Community Colleges only.

OEBM 141. Medical Electronics and Safety in Healthcare 3 Credits (3)

Introduction to the biomedical equipment technology field. Operation of common biomedical equipment to include pressure and temperature systems, infusion devices, patient monitors, and other physiologic and patient systems. Hospital safety and health regulations explained. Restricted to Community Colleges campuses only.

Prerequisite(s): OEBM 140.

OEBM 200. Biomedical Internship

1-4 Credits (3-12P)

Practice working in industry as a biomedical electronics technologist. Students work on a variety of medical equipment and job tasks. An employer evaluation, student report, and a minimum of 100 work hours are required. May be repeated up to 8 credits. Consent of Instructor required. Restricted to Community Colleges campuses only.

Prerequisite(s): OEBM 140 and OEBM 141.

relequisite(3): OLDIN 140 and OLDIN 14

OEBM 211. CBET Exam Preparation

1 Credit (1)

An overview of the Certified Biomedical Equipment Technician exam. Topics include anatomy and physiology, electronics principles, safety issues, equipment operation, and equipment troubleshooting.

Prerequisite(s)/Corequisite(s): OEBM 241 AND OEBM 240. Restricted to Community Colleges campuses only.

OEBM 240. Medical Imaging Systems

3 Credits (3)

The fundamentals of diagnostic radiography equipment will be explored. Principles of an x-ray system will be explained including the x-ray generation, image formation and film processing. Focus will be on both safety and quality. Restricted to Community Colleges campuses only. **Prerequisite(s):** OEBM 140.

OEBM 241. Advanced Medical Electronics

3 Credits (3+1P)

Advanced study in biomedical equipment to include cardiovascular, pulmonary, telemetry and other critical life support systems. Restricted to Community Colleges campuses only.

Prerequisite(s): OEBM 141.

OECS-COMPUTER TECHNOLOGY (OECS)

OECS 101. Computer Basics

1 Credit (1)

Hands-on instruction to introduce computer use and commonly used software. Graded S/U.

OECS 105. Introduction to Information Technology

3 Credits (3)

Examination of information systems and their impact on commerce, education, and personal activities. Utilization of productivity tools for communication, data analysis, information management and decision-making. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

OECS 110. Introduction to Power Point

1-3 Credits (1-3)

An introduction to Power Point software to develop business presentations. Includes concepts of basic presentation methods and graphic design principles. Students will create and deliver presentations using text, charts, digitized images, and sound. Restricted to Community Colleges campuses only.

OECS 125. Operating Systems

1-3 Credits

Installation, configuration and optimization of current operating systems. Restricted to: Community Colleges only.

OECS 128. Operating Systems Linux/Unix

3 Credits (3)

Installation, configuration, and use of Linux/Unix operating system software and utilities including hardware management, file management, use of command line, and scripting. Restricted to: Community Colleges only.

OECS 140. Introduction to Game Production Industry 1-3 Credits (1-3)

Students explore the business behind game production, understanding how game companies are organized and funded, positions within the game industry, and what skills game producers need. Restricted to Community Colleges campuses only.

OECS 141. Introduction to Interactive Game Programming 1-3 Credits (1-3)

This introductory programming class reviews the basics of programming, including the object-oriented approach. Students will de-construct existing games, develop their own code, and gain an appreciation for coding strategies. May be repeated for a maximum of 6 credits. Restricted to Community Colleges campuses only.

OECS 145. Mobile Application Development 1-3 Credits (1-3)

Introduction to elements of mobile application coding including concepts, design strategies, tools needed to create, test and deploy applications for mobile devices. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

OECS 155. Special Topics - Introductory Computer Technology 0.5-4 Credits (.5-4)

Topics to be announced in the Schedule of Classes. May be repeated up to 8 credits.

OECS 185. PC Maintenance and Repair I

1-3 Credits

Introduction to most common types of PC configurations, installations, and failures. This course will explore troubleshooting skills for maintaining and repairing common hardware and software related problems. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

OECS 192. C++ Programming I

3 Credits (3)

Development of skills in programming using the C++ programming language. Restricted to: Community Colleges only.

OECS 195. Java Programming I

1-3 Credits

Developing of skills in programming using the Java programming language. Restricted to: Community Colleges only.

OECS 200. Accounting on Microcomputers

3 Credits (3)

Fundamental accounting principles using popular microcomputer soft ware to include G/L, A/R, A/P, purchase order, billing, inventory, and forecasting modules.

Prerequisite: ACCT 2110 or OATS 121.

OECS 204. Linux Operating System

1-3 Credits

Install and configure the Linux operating system on X86 systems. Covers issues involved in maintaining operating system, networking, creating and managing users, and installing and updating software. General procedures for working with operating system includes maintaining disk space, preserving system security, and other related topics. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

OECS 205. Advanced Operating Systems: Administration 3 Credits (3)

Examines operating systems designed for PC, minicomputers and mainframes. Covers maintaining operating systems, creating and managing users, and installing and updating software. General procedures for working with operating systems will include maintaining disk space, preserving system security, providing mail services, among other topics. May be repeated for a maximum of 6 credits.

Prerequisite: OECS 128.

OECS 207. Windows 0.5-3 Credits

Covers local installation, configuration of core local services, managing users, and the general local management and maintenance of Windows workstations. May be repeated up to 6 credits.

Prerequisite(s)/Corequisite(s): OECS 185. Restricted to Community Colleges campuses only.

OECS 208. Internet Applications

1-3 Credits

Survey of the Internet to include e-mail, file transfer, current search techniques, the World Wide Web and basic Web page development. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

OECS 209. Computer Graphic Arts

1-3 Credits

Basic graphics composition using computer programs to include editing and manipulating graphic images, clip-art, and printing of pictures. May be repeated for a maximum of 6 credits under different subtitles listed in the Schedule of Classes.

Prerequisite: OECS 105, BCIS 1110, or OECS 101.

OECS 211. Word Processing Applications

1-3 Credits

Basic word processing to include composing, editing, formatting, and printing of documents. May be repeated under different subtitles listed in the Schedule of Classes for a maximum of 6 credits.

Prerequisites: BCIS 1110 or OECS 105.

OECS 215. Spreadsheet Applications

1-3 Credits

Use of spreadsheets to include graphics and business applications. May be repeated for a maximum of 6 credits.

Prerequisites: BCIS 1110 or OECS 105.

OECS 216. Programming for the Web

3 Credits (3)

Designing web-based applications using appropriate programming language(s) such as, but not limited to HTML, PHP, MySQL, SQL, Java, Perl, C or C++. May be repeated up to 6 credits. Restricted to: Community Colleges only.

Prerequisite(s): One semester of any programming course.

OECS 220. Database Application and Design

1-3 Credits

Creating, sorting, and searching of single and multifile databases to include report generation and programming database commands. May be repeated for a maximum of 6 credits under different subtitles listed in the Schedule of Classes. Restricted to: Community Colleges only.

Prerequisite(s): BCIS 1110 OR E T 120 OR E T 122 OR OECS 105.

OECS 221. Internship I

1-3 Credits

Work experience that directly relates to a student's major field of study that provides the student an opportunity to explore career paths and apply knowledge and theory learned in the classroom. Internships may be paid or unpaid. Students are supervised/evaluated by both the employer and the instructor. May be repeated up to 3 credits. Consent of Instructor required. Restricted to: OECS majors. Graded: S/U Grading (S/U, Audit). Restricted to Community Colleges campuses only.

Prerequisite(s): Consent of instructor.

OECS 222. Internship II

1-3 Credits

Continuation of OECS 221. Each credit requires specified number of hours of on-the-job work experience. May be repeated up to 3 credits. Consent of Instructor required. Restricted to: OECS majors. Graded: S/U Grading (S/U, Audit). Restricted to Community Colleges campuses only.

Prerequisite(s): OECS 221 and consent of instructor.

OECS 227. Computer Applications for Technicians 3 Credits (3)

Computer applications for service technicians in various disciplines. Hardware and software applications explored. Includes operating systems, high level programming, and networking hardware and software.

OECS 230. Data Communications and Networks I

1-3 Credits

Definition of data communication; survey of hardware applications and teleprocessor software; examination and design of networks. May be repeated for a maximum of 6 credits.

Prerequisite: OECS 185.

OECS 231. Data Communications and Networks II

1-3 Credits

Installation and application of popular microcomputer network software. May be repeated for a maximum of 6 credits.

Prerequisite: OECS 230. OECS 234. Linux Server 3-4 Credits (3-4)

This course addresses the implementation and support needs of IT professionals that are planning to deploy and support Linux Server(s). It provides in-depth, hands-on training for planning, implementation, management and support of Linux networking services. May be repeated up to 8 credits.

Prerequisite(s)/Corequisite(s): OECS 204. Restricted to: OECS majors. Restricted to Community Colleges campuses only.

OECS 235. Structured Query Language (SQL)

1-3 Credits

Installation, configuration, administration, and troubleshooting of SQL client/server database management system. May be repeated up to 3 credits

Prerequisite(s)/Corequisite(s): OECS 220. Restricted to Community Colleges campuses only.

OECS 237. Windows Server

3-4 Credits (3-4)

This course addresses the implementation and support needs of IT professionals that are planning to deploy and support Microsoft Windows Server Active Directory Domain Services in medium to large businesses. It provides in-depth, hands-on training for Information Technology (IT) professionals responsible for the planning, implementation, management, and support of Windows Active Directory services. May be repeated up to 4 credits.

Prerequisite(s)/Corequisite(s): OECS 207. Restricted to Community Colleges campuses only.

OECS 245. Game Programming I

3 Credits (3)

Development of programming skills for games and animation using current programming languages and tools. May be repeated for a maximum of 6 credits.

Prerequisite: consent of instructor.

OECS 246. Game Programming II

3 Credits (3)

Continuation of OECS 245. May be repeated for a maximum of 6 credits. **Prerequisite:** OECS 245.

OECS 250. Systems Analysis and Design I

3 Credits (3)

Analysis, configuration, design and testing of organizations' work flow as it relates to hardware, software, data, procedures and personnel. Systems Life Cycle approach matching end users' needs to feasible financial, technical and operational solutions. Restricted to Community Colleges campuses only.

Prerequisite(s): OECS 220.

OECS 255. Special Topics

1-4 Credits

Topics to be announced in the Schedule of Classes.

OECS 260. Hypertext Markup Language (HTML)

1-3 Credits

Coverage of HTML as used for web-page development for Internet and Intranet. Text manipulation, graphics, hypertext links, lists, and tables. May be repeated for a maximum or 3 credits.

Prerequisite: BCIS 1110 or OECS 105.

OECS 261. Introduction to Networks

3-4 Credits (3-4)

Introduction to networking principles including the practical and conceptual skills for understanding basic networking, planning and designing networks, implementing IP addressing schemes, examining the OSI and TCP/IP layers, and performing basic configurations for routers and switches. Aligns to the first course of the Cisco Networking Academy CCNA curriculum. Restricted to Community Colleges campuses only.

OECS 262. Essentials of Routing and Switching 3-4 Credits (3-4)

Examination of the architecture, components, and operations of routers and switches in a small network. Student will learn how to configure, verify and troubleshoot: routers and switches, static routing, default routing, VLANs, and ACLs. Aligns to the second course of the Cisco Networking Academy CCNA curriculum. May be repeated up to 4 credits. **Prerequisite(s)/Corequisite(s):** OECS 261. Restricted to Community Colleges campuses only.

OECS 263. Network Fundamentals

3-4 Credits (3-4)

Fundamentals of networking architecture, components, and operations including practical and conceptual skills using routers and switches. Student will learn how to configure, verify and troubleshoot static routing, default routing, VLANs, and ACLs. This course aligns to the third course of the Cisco Networking Academy CCNA curriculum. May be repeated up to 4 credits.

Prerequisite(s)/Corequisite(s): OECS 262. Restricted to Community Colleges campuses only.

OECS 264. Network Routing Protocols

3-4 Credits (3-4)

Fundamentals of routing protocols for troubleshooting advanced network operations. Covers common networking issues such as RIP, OSPF, and EIGRP for IPv4 and IPv6 networks. This course aligns to the fourth course of the Cisco Networking Academy CCNA curriculum. May be repeated up to 4 credits.

Prerequisite(s)/Corequisite(s): OECS 263. Restricted to Community Colleges campuses only.

OECS 269. Network Security

3-4 Credits (3-4)

Fundamentals of design and implementation of network security solutions that will reduce the risk of system vulnerability. May be repeated up to 8 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): OECS 204 or OECS 207 or OECS 261 or consent of instructor.

OECS 275. PC Maintenance and Repair II

1-3 Credits

Continuation of OECS 185. May be repeated up to 6 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): OECS 185.

OECS 280. Desktop Publishing I

3 Credits (3)

Design and production of publication materials to fill the needs of business communities, using a microcomputer. May be repeated for a maximum of 6 credits. Same as OATS 280.

Prerequisites: either BCIS 1110, OECS 105.

OECS 290. Computer Technology Capstone

1-3 Credits

Refines skills learned in the OECS program. Culminates in a review and practice of advanced software applications. May be repeated up to 3 credits. Restricted to: OECS & OECT majors. Restricted to Community Colleges campuses only.

Prerequisite(s): (OECS 125, OECS 128, OECS 207, OR OECS 203) AND (OECS 185 OR E T 283).

OECS 299. Independent Study

1-3 Credits

Specific subjects to be determined based on need. Restricted to: Community Colleges only.

OEEM- PARAMEDIC (OEEM)

OEEM 101. CPR for the Health Care Professional 1 Credit (1)

Students learn identification and response to airway and circulation emergencies, including use of a SAED and accessing the EMS system. This course is taught using the American Heart Association guidelines for course completion. Required: grade of C or better.

OEEM 103. Heartsaver First Aid/CPR

1 Credit (1)

Students learn how to identify and respond to airway, circulation and basic first aid emergencies, to include using a SAED and accessing the EMS system. This course is intended for students who are not Allied Health Majors and utilizes the American Heart Association guidelines for course completion. Restricted to: Community Colleges only.

OEEM 106. Advanced First Aid 2 Credits (2)

Theory and advanced first aid skills taught emphasizing recognition and providing care for injury or sudden illness until professional medical help arrives. Course meets and/or exceeds the Red Cross or National Safety Council standards. Corequisite(s): OEEM 101

OEEM 115. First Responder Prehospital Professional 3 Credits (2+3P)

Provides training in prehospital medical and traumatic emergencies. Consent of instructor required. Requires a C or better to pass. Restricted to majors

Corequisite(s): OEEM 101.

OEEM 120. Emergency Medical Technician Basic 6 Credits (6)

EMT-Basic skills to include care of soft tissue and muscular/skeletal injuries, circulatory, nervous, general medical and respiratory emergencies. Requires a 'C' or better to pass. May be repeated up to 6 credits. Consent of Instructor required.

Corequisite(s): OEEM 101, OEEM 120L, OEEM 121.

Prerequisite(s)/Corequisite(s): OEEM 153. Restricted to: OEEM majors. Restricted to Community Colleges campuses only.

OEEM 120 L. Emergency Medical Technician Basic Lab 2 Credits (6P)

EMT-Basic skills development with emphasis on assessment, skills competency and team-work in patient care in the prehospital setting. May be repeated up to 2 credits.

Corequisite(s): OEEM 101, OEEM 120, OEEM 121.

Prerequisite(s)/Corequisite(s): OEEM 153. Restricted to: OEEM majors. Restricted to Community Colleges campuses only.

OEEM 121. Emergency Medical Technician Basic Field/Clinical 1 Credit (3P)

Covers the patient care experience provided through assigned shifts in the hospital and/or ambulance setting. Requires a 'C' or better to pass. May be repeated up to 1 credits. Consent of Instructor required.

Prerequisite(s)/Corequisite(s): OEEM 101, OEEM 120, OEEM 120L

OEEM 153. Restricted to: OEEM majors. Restricted to Community

Colleges campuses only.

OEEM 122. Emergency Medical Technician Basic Advanced Field/ Internship

2 Credits (6P)

Expanded patient care experience provided through assigned shifts in the hospital and/or ambulance setting. May be repeated up to 2 credits. Consent of Instructor required. Restricted to: OEEM majors. Restricted to Community Colleges campuses only.

Prerequisite(s): Current EMT-basic license and consent of instructor.

OEEM 150. Emergency Medical Technician Intermediate 5 Credits (5)

Theory of the roles, responsibilities and scope of practice of the EMT-Intermediate. Assessment and management of respiratory, cardiac, trauma, environmental, behavior, reproduction, and childhood emergencies. May be repeated up to 5 credits. Consent of Instructor required. Restricted to: OEEM majors. Restricted to Community Colleges campuses only.

Prerequisite(s): Current EMT-basic license, pretest and consent of instructor.

OEEM 150 L. Emergency Medical Technician Intermediate Lab 2 Credits (6P)

EMT-Intermediate skills development with an emphasis on assessment, skills competency, and team work in patient care in the prehospital setting. Requires a C or better to pass.

Prerequisite(s)/Corequisite(s): OEEM 150,0EEM 151. Restricted to: OEEM majors. Restricted to Community Colleges campuses only.

OEEM 151. Emergency Medical Technician Intermediate Field/Clinical 2 Credits (6P)

Patient care experience provided through assigned shifts in the hospital and/or ambulance setting.

Prerequisite(s)/Corequisite(s): OEEM 150, OEEM 150 L. Restricted to: OEEM majors. Restricted to Community Colleges campuses only.

OEEM 153. Introduction to Anatomy and Physiology for the EMS Provider 3 Credits (3)

To properly assess and manage a patient, a prehospital provider must have a solid foundation in human anatomy and physiology. This course provides a systematic approach to building this foundation. Grade of 'C' or better is required to pass the course. Consent of Instructor required. Restricted to Community Colleges campuses only.

OEEM 155. Special Topics

1-6 Credits

Specific topics to be listed in Schedule of Classes. May be repeated for a maximum of 10 credits.

OEEM 158. Emergency Medical Technician-Combination Refresher 2 Credits (2)

A comprehensive review of prehospital medicine for the prehospital care provider from the first responder level through the EMT Intermediate. New material relevant to recertification of the New Mexico First Responder, EMT Basic and EMT Intermediate licensure included. Graded S/U.

OEEM 177. Emergency Medical Services Instructor 4 Credits (4)

Theory of student learning, methodology, instructional components, evaluation, and course coordination for the EMS profession. May be repeated up to 4 credits. Consent of Instructor required. Restricted to Community Colleges campuses only.

Prerequisite(s): Minimum of an EMT-Basic License required.

OEEM 201. Human Pathophysiology 3 Credits (2+3P)

Overview of anatomy and physiology. Emphasis on human body pathophysiology including a medical illness component. Requires a 'C' or better to pass. May be repeated up to 3 credits. Consent of Instructor required. Restricted to: OEMS, OEEM majors. Restricted to Community Colleges campuses only.

Prerequisite(s): OEEM 120, OEEM 120 L.

OEEM 202. EMT-Paramedic Respiratory Emergencies 3 Credits (2+3P)

Review anatomy, physiology and pathophysiology of the respiratory system. Assessment and management of respiratory emergencies and acute respiratory failure in the prehospital setting. Requires a 'C' or better to pass. May be repeated up to 3 credits. Consent of Instructor required. Restricted to: OEMS,OEEM majors. Restricted to Community Colleges campuses only.

Prerequisite(s): OEEM 212.

OEEM 203. EMT-Paramedic Trauma Emergencies 3 Credits (2+3P)

Study of the effects of trauma on the human body. Assessment and management of trauma patients and scenes, including vehicular extrication. May be repeated up to 3 credits. Consent of Instructor required. Restricted to: OEEM majors. Restricted to Community Colleges campuses only.

Prerequisite(s): OEEM 216.

OEEM 206. Introduction to Advanced Prehospital Care 3 Credits (2+3P)

Overview of prehospital care including roles and responsibilities of EMT-P, EMS systems, medical, legal, ethical issues, stress management, medical terminology, medical report writing and communication. Includes ridealong with ambulance and dispatch observation. Requires a C or better to pass. Restricted to majors. Consent of instructor required. Restricted to: Community Colleges only. Restricted to OEEM majors.

Prerequisite(s): OEEM 120.

OEEM 207. Introduction to Pharmacology 3 Credits (2+3P)

Drug actions, factors modifying drugs and dosages: characteristics of drug effects, and drug history and dosages. Prehospital protocol, transport, and common patient prescription medications. Restricted to majors. Requires a C or better to pass. Restricted to: Community Colleges only. Restricted to OEEM majors.

Prerequisite(s): OEEM 120.

OEEM 210. Cardiac Rhythm Interpretation 3 Credits (2+3P)

Cardiac conduction system: electrophysiology, electrocardiogram, monitor, atrial, sinus, ventricular and junctional dysrhythmias, multiple lead EKG and 12 lead EKG interpretation. Requires a 'C' or better to pass. May be repeated up to 3 credits. Consent of Instructor required. Restricted to: OEEM, OEMS majors. Restricted to Community Colleges campuses only.

Prerequisite(s): OEEM 201, OEEM 206, OEEM 207.

OEEM 212. EMT-Paramedic Cardiovascular Emergencies 3 Credits (2+3P)

Review anatomy, physiology, and pathophysiology of cardiovascular system. Assessment and management of cardiovascular emergencies in the prehospital setting. Requires a 'C' or better to pass. May be repeated up to 3 credits. Consent of Instructor required. Restricted to: OEMS,OEEM majors. Restricted to Community Colleges campuses only.

Prerequisite(s): OEEM 210.

OEEM 213. EMT-Paramedic: Medical Emergencies I 3 Credits (2+3P)

Study of the disease process; assessment and management of neurological, endocrine, gastrointestinal, renal emergencies and infectious disease. Requires a 'C' or better to pass. May be repeated up to 3 credits. Consent of Instructor required. Restricted to: OEEM, OEMS majors. Restricted to Community Colleges campuses only.

Prerequisite(s): OEEM 212.

OEEM 214. EMT--Paramedic: Medical Environmental Emergencies II 3 Credits (2+3P)

Study of disease process, assessment, and management of poisoning, drug and alcohol abuse, environmental, behavioral and geriatric emergencies. Requires a 'C' or better to pass. May be repeated up to 3 credits. Consent of Instructor required. Restricted to: OEMS, OEEM majors. Restricted to Community Colleges campuses only.

Prerequisite(s): OEEM 213.

OEEM 216. EMT-Paramedic: Reproductive and Childhood Emergencies 3 Credits (2+3P)

Covers anatomy, physiology, disease processes, assessment and management of male and female reproductive system emergencies, childhood emergencies and growth and development. Restricted to majors. Requires a C or better to pass. Restricted to: Community Colleges only.

Prerequisite(s): OEEM 214 and consent of instructor.

OEEM 218. Pediatric Advance Life Support for the Healthcare Professional

1 Credit (1)

Identify and respond to life threatening pediatric emergencies. Taught using the American Heart Association guidelines for course completion. Graded S/U.

Prerequisite: OEEM 101.

OEEM 219. Advance Cardiac Life Support for the Healthcare Provider 1 Credit (1)

Identify and respond to life threatening cardiac emergencies. Taught using the American Heart Association guidelines for course completion. Graded S/IJ

Prerequisite: OEEM 101.

OEEM 230. EMT-Paramedic Clinical Experience I 3 Credits (9P)

Assigned clinical experiences in patient assessment and specific management techniques. Successful completion includes minimum required hours and completion of course objectives. Restricted to majors. Requires a C or better to pass.

Prerequisite: consent of instructor.

OEEM 231. EMT-Paramedic Clinical Experience II 3 Credits (9P)

Assigned clinical experiences in patient assessment and specific management techniques. Successful completion includes minimum required hours and completion of course objectives. Requires a 'C' or better to pass. May be repeated up to 3 credits. Consent of Instructor required.

Prerequisite(s)/Corequisite(s): OEEM 230. Restricted to: OEMS,OEEM majors. Restricted to Community Colleges campuses only.

OEEM 240. EMT-Paramedic Field Experience I 3 Credits (9P)

Advanced prehospital skills and knowledge. Successful completion of at least the minimum required hours and course objectives. Restricted to majors. Requires a C or better to pass.

Prerequisite: consent of instructor.

OEEM 241. EMT-Paramedic Field Experience II 3 Credits (9P)

Continued focus on advanced prehospital skills and knowledge, with increasing responsibility for patient care. Successful completion includes meeting at least the minimum required hours and course objectives.

Prerequisite(s)/Corequisite(s): OEEM 240. Requires a C- or better to pass.

OEEM 242. EMT-Paramedic Field Internship 3 Credits (9P)

Emphasis on total patient care responsibility and team leadership skills. Successful completion includes meeting the minimum hours required and course objectives. Pre/ Consent of Instructor required. Restricted to: OEEM majors. Restricted to Community Colleges campuses only.

Prerequisite(s): OEEM 231, OEEM 241.

OEEM 243. EMT-Paramedic Preparation for Practice 2 Credits (2)

Comprehensive final program testing to prepare for licensing examination. Requires a 'C' or better to pass. May be repeated up to 2 credits. Consent of Instructor required. Restricted to: OEMS, OEEM majors. Restricted to Community Colleges campuses only.

Prerequisite(s): OEEM 242.

OEEM 247. Emergency Medical Technician - Paramedic Refresher 2 Credits (1+3P)

A comprehensive review of prehospital emergency medicine for the EMT Paramedic. New material relevant to recertification of the New Mexico and Nationally Registered Paramedic licensure. Graded S/U.

OEEM 253. Critical Care Emergency Medical Transport Program 6 Credits (5+6P)

This course will provide further education to Paramedics, Registered Nurses and Registered Respiratory Therapists who wish to function as part of a critical care transport team. Consent of instructor required. Restricted to: Community Colleges only.

Prerequisite(s): Licensed Paramedic, Registered Nurse or Registered Respiratory Therapist with one or more years experience.

OEET- ELECTRICAL TRADES (OEET)

OEET 110. Basic Electricity and Electronics

4 Credits (3+3P)

An introduction to electricity theory and practice, including electron theory, Ohm s law, construction of electrical circuits, direct and alternating currents, magnetism, transformers, and practical applications. Same as HVAC 102, ELT 105, OEPB 102.

OEET 120. Basic Motor Controls

5 Credits (2+6P)

Developing schematics and wiring simple manual and electromechanical control devices.

Prerequisite: OEET 110 or consent of instructor.

OEET 151. Electrical Apprenticeship I

6 Credits (6)

Apprenticeship responsibilities and benefits as well as first aid and CPR will be covered. Hand tools, electrical theory, and the regulations imposed by national codes and OSHA. Students will apply theory taught in their jobs.

Prerequisite: consent of instructor.

OEET 152. Electrical Apprenticeship II

6 Credits (6)

OHM s law circuit sizing and service panel sizing will be covered in detail. Other topics include low voltage systems, heating and air conditioning circuits, alarm systems and smoke detectors.

Prerequisites: OEET 151 and consent of instructor.

OEET 153. Electrical Apprenticeship III

6 Credits (6)

Various electrical measuring devices will be covered in detail. Inductance, transformers, capacitance, and simple motors will be studied.

Prerequisites: OEET 152 and consent of instructor.

OEET 154. Electrical Apprenticeship IV

6 Credits (6)

Theory and application of three-phase transformers and autotransformers. Electrical distribution using switchboards, panelboards, and circuit breakers.

Prerequisites: OEET 153 and consent of instructor.

OEET 205. National Electric Code

3 Credits (3)

Interpretation and application of the National Electric Code.

Prerequisite: OEET 110.

OEET 210. Intermediate Electricity

5 Credits (3+4P)

Introduction to inductance, capacitance, reactances, and power factor correction.

Prerequisite: OEET 110.

OEET 251. Electrical Apprenticeship V

6 Credits (6)

Commercial/industrial applications for electricians. Blueprint interpretation, commercial construction types and processes, wiring methods, wiring materials, and motor controls.

Prerequisites: OEET 154 and consent of instructor.

OEET 252. Electrical Apprenticeship VI

6 Credits (6)

In-depth commercial applications to include commercial/industrial service calculations, mobile home parks, multi-family dwellings, and commercial fire/security systems.

Prerequisites: OEET 251 and consent of instructor.

OEET 253. Electrical Apprenticeship VII

6 Credits (6)

Control devices in commercial/industrial applications; emphasis on logic in-line diagrams, time delay starters, reversing starters, and manual/magnetic solenoids.

Prerequisites: OEET 252 and consent of instructor.

OEET 254. Electrical Apprenticeship VIII

6 Credits (6)

Miscellaneous topics for the journeyperson electrician to include power distribution/transmission, solid state controls and relays, photoelectric and proximity controls and programmable controllers.

Prerequisites: OEET 253 and consent of instructor.

OEET 295. Special Topics

1-6 Credits

Topics to be announced in the Schedule of Classes.

OEGR-DIGITAL GRAPHIC TECH (OEGR)

OEGR 221. Cooperative Experience I

1-3 Credits

Student employed in approved work site; supervised and rated by employer and instructor. Each credit requires specified number of hours of on-the-job work experience. Restricted to majors. Graded S/U. **Prerequisite:** consent of instructor.

OEGS-GEOGRAPHIC INFO SYS (OEGS)

OEGS 181. Introduction to Principles of Geographic Information Systems 4 Credits (3+3P)

This course will introduce students to fundamental software capabilities of geographic information systems (GIS), along with the underlying conceptual framework. Topics include origins, development, and methods of cartography, components of a GIS, the nature and characteristics of spatial data, methods of data capture and sources of data, review of typical GIS operations and applications. Producing useful, aesthetically pleasing maps will be an intergral part of the course. ArcGIS software will be used for this course. May be repeated up to 4 credits.

OEGS 187. GIS Data Acquisition and Management 4 Credits (3+3P)

An introduction to defining data needs and evaluating whether a given dataset matches those needs. Students will explore some common geographic data formats used in ArcGIS and learn about sources of data and maps that can be incorporated into a GIS project. The student will learn the advanced functionality and versatility of using geodatabases. The student will demonstrate how to design and build a geodatabase, migrate exisiting data to a geodatabase and edit data stored in a geodatabase. Methods for georeferencing scanned maps, aerial photos and computer aided drafting files will be explored and discussed. May be repeated up to 4 credits.

Prerequisite(s): OEGS 181.

OEGS 291. Special Topics in Geographic Information Systems 1-3 Credits (1-3)

Topics to be announced in the Schedule of Classes. May be repeated up to 12 credits. Restricted to Community Colleges campuses only.

OETS-TECHNICAL STUDIES (OETS)

OETS 100. Industrial/Construction Safety

2 Credits (2)

Covers safety issues such as PPE, BBP, ladder safety,, RTK, HazCom, MSDS and information about safety organizations such as OSHA, NIOSH, NFPA, National Safety Council. Community Colleges only. Restricted to Dona Ana and Carlsbad campuses.

OETS 102. Career Readiness Certification Preparation 1 Credit (1)

This course is designed to prepare students to successfully obtain Career Readiness Certifications in all areas and at the appropriate levels for their program of study. Graded: S/U Grading (S/U, Audit). May be repeated up to 3 credits. S/U Grading (S/U, Audit).

OETS 103. Technical Career Skills 4 Credits (4)

This course will be project-based and will encompass writing, presentation, math, reading, and critical thinking skills applied in a technical environment. Restricted to: Community Colleges only.

OETS 104. Basic Mathematics for Technicians 4 Credits (4)

Fundamental mathematical concepts and computations including measurement, ratio and proportions, and pre-algebra as it relates to technical programs.

Prerequisite: appropriate placement test score.

OETS 117. Writing for Technicians

3 Credits (3)

Instruction in the skills for developing clear, written descriptions of processes and procedures used by technicians in various fields. Emphasis on correct grammar, logical organization, and receiving audience. Focuses on clarity, structure, and concise writing methods. Does not substitute for ENGL 111G. Restricted to: Community Colleges only.

OETS 118. Mathematics for Technicians 3 Credits (2+2P)

Analysis and problem solving of technical problems using measuring instruments and techniques of arithmetic, algebra, geometry, and trigonometry. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): Grade of 'C-' or better in OETS 104 or CCDM 103 N, or appropriate placement test score.

OETS 120. Business Fundamentals

3 Credits (3)

Instruction in the skills for basic business concepts used by technicians in various fields. Emphasis placed on basic business concepts; business ownership including marketing, management, accounting, and customer services; interpersonal communication; and basic computer concepts including word processing, spreadsheets, and presentation software. Restricted to Community Colleges campuses only.

OETS 255. Special Topics Technical Studies

1-6 Credits

Topics to be announced in the Schedule of Classes. Restricted to: Community Colleges only.

Prerequisite(s): Consent of instructor.

PHED-PHYSICAL EDUCATION

PHED 1110. Dance:

1 Credit (1)

Individual sections vary based on topic content; "audience"; type or level of participation. May be repeated up to 6 credits.

PHED 1230. Individual Sport:

1 Credit (1)

Individual sections vary based on topic content; "audience"; type or level of participation. May be repeated up to 6 credits.

PHED 1290. Team Sport:

1 Credit (1)

Individual sections vary based on topic content; "audience"; type or level of participation. May be repeated up to 6 credits.

PHED 1310. Swim I:

1 Credit (1)

Individual sections vary based on topic content; "audience"; type or level of participation. May be repeated up to 6 credits.

PHED 1320. Aqua Fit:

1 Credit (1)

Individual sections vary based on topic content; "audience"; type or level of participation. May be repeated up to 6 credits.

PHED 1410. Yoga:

1 Credit (1)

Individual sections vary based on topic content; "audience"; type or level of participation. May be repeated up to 6 credits.

PHED 1430. Pilates:

1 Credit (1)

Individual sections vary based on topic content; "audience"; type or level of participation. May be repeated up to 6 credits.

PHED 1510. Training:

1 Credit (1)

Individual sections vary based on topic content; "audience"; type or level of participation. May be repeated up to 6 credits.

PHED 1620. Fitness:

1 Credit (1)

Individual sections vary based on topic content; "audience"; type or level of participation. May be repeated up to 6 credits.

PHED 1630. Career Fitness:

1 Credit (1)

Individual sections vary based on topic content; "audience"; type or level of participation.

PHED 1670. Aerobics:

1 Credit (1)

Individual sections vary based on topic content; "audience"; type or level of participation. May be repeated up to 6 credits.

PHED 1710. Martial Arts:

1 Credit (1)

Individual sections vary based on topic content; "audience"; type or level of participation. May be repeated up to 6 credits.

PHED 1830. Running:

1 Credit (1)

Individual sections vary based on topic content; "audience"; type or level of participation.

PHED 1910. Outdoor Experience

1 Credit (1)

Individual sections vary based on topic content; "audience"; type or level of participation. May be repeated up to 6 credits.

PHED 2996. Special Topics

1-3 Credits

Specific subjects to be announced in the Schedule of Classes. Each offering will carry appropriate subtitle. May be repeated for a maximum of 6 credits.

PHIL-PHILOSOPHY (PHIL)

PHIL 1115G. Introduction to Philosophy

3 Credits (3)

In this course, students will be introduced to some of the key questions of philosophy through the study of classical and contemporary thinkers. Some of the questions students might consider are: Do we have free will? What is knowledge? What is the mind? What are our moral obligations to others? Students will engage with and learn to critically assess various philosophical approaches to such questions.

PHIL 1120G. Logic, Reasoning, & Critical Thinking 3 Credits (3)

The purpose of this course is to teach students how to analyze, critique, and construct arguments. The course includes an introductory survey of important logical concepts and tools needed for argument analysis. These concepts and tools will be use to examine select philosophical and scholarly texts.

PHIL 1140G. Quest for God

3 Credits (3)

An effort to understand the religious life; a consideration of some of the traditional approaches to God and what it means to be religious.

PHIL 1145G. Philosophy, Law, and Ethics

3 Credits (3)

An introduction to practical problems in moral, social, political, and legal philosophy. Topics to be discussed may include ecology, animal rights, pornography, hate speech on campus, same-sex marriage, justice, abortion, terrorism, treatment of illegal immigrants, and New Mexican Aboriginal Peoples' land claims.

PHIL 1155G. Philosophy of Music

3 Credits (3)

This is an introductory course in the philosophy of music. This course will survey three questions: What is music? Why is music important? How can we distinguish good music from bad music? We will draw examples from a wide variety of musical genres, from classical music, jazz and blues to punk and rap. Students will be encouraged to apply philosophical theorizing to think about their preferred musical form.

PHIL 2110G. Introduction to Ethics

3 Credits (3)

This course introduces students to the philosophical study of morality and will explore questions concerning our human obligations to others and related issues. Students may be asked to relate various approaches to ethics to present-day ethical debates and their own lives.

PHIL 2230G. Philosophical Thought

3 Credits (3)

In this course, students will grapple with some of the key questions of philosophy through the study of classical and contemporary thinkers. Students will become familiar with the perennial problems in subfields of philosophy such as metaphysics, epistemology, ethics, and aesthetics. They will learn to approach these problems both critically and sympathetically.

PHLS-PUBLIC HEALTH SCIENCES (PHLS)

PHLS 1110G. Personal Health & Wellness

3 Credits (3)

A holistic and multi-disciplinary approach towards promoting positive lifestyles. Special emphasis is placed on major problems that have greatest significance to personal and community health. Topics to include nutrition, stress management, fitness, aging, sexuality, drug education, and others.

PHLS 1111. Introduction to Health Science 1 Credit (1)

An overview of professional career opportunities in the realm of health science as well as the functional roles of practice, education, administration, and research. Some field trips will be required.

PHLS 2110. Foundations of Health Education

3 Credits (3)

Role and responsibility of the health educator with emphasis on small group dynamics, oral and written communication skills, building community coalitions and introduction to grant writing. Taught with PHLS 375. Cannot receive credit for both PHLS 2110 and PHLS 375. May be repeated up to 3 credits.

Prerequisite(s): PHLS 1110G, or consent of instructor.

PHLS 2120. Essentials of Public Health

3 Credits (3)

The course will focus on principles and major areas if public health, including ecological and total personal concept of health care system, epidemiological approaches to disease prevention and control. Consent of Instructor required.

PHYS-PHYSICS (PHYS)

PHYS 1111. Introductory Computational Physics

3 Credits (2+2P)

Introduction to computational techniques for the solution of physics-related problems.

Prerequisite(s): a C- or better in MATH 1220G or MATH 1250G or MATH 1511G.

PHYS 1112. Introductory Physics for the Health Sciences 3 Credits (3)

Algebra-level introduction to topics required for the Health Sciences including basic mechanics (including sound, mechanical waves and fluids), heat and thermodynamics, electricity and magnetism, optics and electromagnetic waves, atomic and nuclear physics and applications to medical imaging. Restricted to Community Colleges campuses only. **Prerequisite(s):** MATH 1215 or Equivalent.

PHYS 1115G. Survey of Physics with Lab 4 Credits (3+3P)

Overview of the concepts and basic phenomena of physics. This course provides a largely descriptive and qualitative treatment with a minimum use of elementary mathematics to solve problems. No previous knowledge of physics is assumed. Includes laboratory.

PHYS 1125G. Physics of Music

4 Credits (3+2P)

Introduction for non-science majors to basic concepts, laws, and skills in physics, in the context of a study of sound, acoustics, and music.

PHYS 1230G. Algebra-Based Physics I

3 Credits (3)

An algebra-based treatment of Newtonian mechanics. Topics include kinematics and dynamics in one and two dimensions, conservation of energy and momentum, rotational motion, equilibrium, and fluids.

PHYS 1230L. Algebra-Based Physics I Lab

1 Credit (1)

A series of laboratory experiments associated with the material presented in PHYS 1230G.

Prerequisite(s)/Corequisite(s): PHYS 1230G.

PHYS 1240G. Algebra-Based Physics II

3 Credits (3)

The second half of a two semester algebra-based introduction to Physics. This course covers electricity, magnetism and optics.

Prerequisite(s): a C- or better in PHYS 1230G or PHYS 2230G.

PHYS 1240L. Algebra-Based Physics II Lab

1 Credit (1)

A series of laboratory experiments associated with the material presented in PHYS 1240

Prerequisite(s)/Corequisite(s): PHYS 1240G.

PHYS 1241. Problems in Algebra-Based Physics II

1 Credit (1)

This is a supplemental course for Algebra-based Physics II. **Corequisite(s):** PHYS 1240G.

PHYS 1310G. Calculus -Based Physics I

3 Credits (3)

A calculus level treatment of classical mechanics and waves, which is concerned with the physical motion concepts, forces, energy concepts, momentum, rotational motion, angular momentum, gravity, and static equilibrium. May be repeated up to 3 credits.

Prerequisite(s): a C- or better in MATH 1511G or higher.

PHYS 1310L. Calculus -Based Physics I Lab

1 Credit (3P)

A series of laboratory experiments associated with the material presented in Calculus-based Physics I. Students will apply the principles and concepts highlighting the main objectives covered in coursework for Calculus-based Physics I.

Prerequisite(s)/Corequisite(s): PHYS 1310G.

PHYS 1311. Problems in Calculus-Based Physics I 0.5-1 Credits (.5-1)

This is a supplemental course for Calculus-based Physics I. May be repeated up to 1 credits.

Corequisite(s): PHYS 1310G.

PHYS 1320G. Calculus -Based Physics II 3 Credits (3)

A calculus level treatment of classical electricity and magnetism. It is strongly recommended that this course is taken at the same time as Calculus-based Physics II laboratory. May be repeated up to 3 credits.

Prerequisite(s): a C- or better in PHYS 2110 or PHYS 1310G and MATH 1521G or higher.

PHYS 1320L. Calculus -Based Physics II Lab 1 Credit (3P)

A series of Laboratory experiments associated with the material presented in Calculus-Based Physics II. Students will apply the principles and concepts highlighting the main objectives covered in coursework for Calculus-Based Physics II.

Prerequisite(s)/Corequisite(s): PHYS 1320G. Prerequisite(s): A C- or better in PHYS 2110L or PHYS 1310L.

PHYS 1321. Problems in Calculus-Based Physics II 0.5-1 Credits (.5-1)

This is a supplemental course for Calculus-based Physics II.

Corequisite(s): PHYS 1320G.

PHYS 2110. Mechanics

3 Credits (3)

Newtonian mechanics.

Prerequisite(s)/Corequisite(s): MATH 1511G or higher.

PHYS 2110L. Experimental Mechanics

1 Credit (3P)

Laboratory experiments associated with the material presented in PHYS 2110. Science majors.

Prerequisite(s)/Corequisite(s): PHYS 2110.

PHYS 2111. Supplemental Instruction to PHYS 2110 0.5-1 Credits (.5-1)

This Optional workshop as a supplement to PHYS 2110. The tutorial sessions focus on reasoning and hands-on problem solving. May be repeated up to 1 credits.

Corequisite(s): PHYS 2110.

PHYS 2120. Heat, Light, and Sound

3 Credits (3)

Calculus-level treatment of thermodynamics, geometrical and physical optics, and sound. May be repeated up to 3 credits.

Prerequisite(s): a C- or better in PHYS 2110 or PHYS 1310G, and MATH 1511G or higher.

PHYS 2120L. Heat, Light, and Sound Laboratory 1 Credit (3P)

Laboratory experiments associated with the material presented in PHYS 2120. Science majors.

Prerequisite(s)/Corequisite(s): PHYS 2120. Prerequisite(s): a C- or better in PHYS 2110L or PHYS 1310L.

PHYS 2121. Supplemental Instruction to PHYS 2120 0.5-1 Credits (.5-1)

This optional workshop supplements PHYS 2120 'Heat, Light, and Sound'. Students actively apply concepts and methods introduced in PHYS 2120 to problem solving and quantitative analysis. May be repeated up to 1 credits.

Corequisite(s): PHYS 2120.

PHYS 2140. Electricity and Magnetism

3 Credits (3)

Charges and matter, the electric field, Gauss law, the electric potential, the magnetic field, Ampere's law, Faraday's law, electric circuits, alternating currents, Maxwell's equations, and electromagnetic waves. May be repeated up to 3 credits.

Prerequisite(s)/Corequisite(s): MATH 1521G. Prerequisite(s): a C- or better in PHYS 2110 or PHYS 1310G, and MATH 1511G or higher.

PHYS 2140L. Electricity & Magnetism Laboratory 1 Credit (3P)

Laboratory experiments associated with the material presented in PHYS 2140.

Prerequisite(s)/Corequisite(s): PHYS 2140. Prerequisite(s): a C- or better in PHYS 2110 or PHYS 1310G.

PHYS 2141. Supplemental Instruction to PHYS 2140 0.5-1 Credits (.5-1)

Optional workshop as a supplement to PHYS 2140. The tutorial sessions focus on reasoning and hands-on problem solving. May be repeated up to 1 credits.

Corequisite(s): PHYS 2140.

PHYS 2230G. General Physics for Life Science I 3 Credits (3)

This algebra-based introduction to general physics covers mechanics, waves, sound, and heat. Special emphasis is given to applications in the life sciences. This course is recommended for students in the life sciences and those preparing for the physics part of the MCAT. May be repeated up to 3 credits.

Prerequisite(s): A C or better in MATH 1215 or higher.

PHYS 2230L. Laboratory to General Physics for Life Science I 1 Credit (1)

Laboratory experiments in topics associated with material presented in PHYS 2230G.

Prerequisite(s)/Corequisite(s): PHYS 2230G. Restricted to Las Cruces campus only.

PHYS 2231. Supplemental Instruction to General Physics for Life Sciences I

1 Credit (1)

This optional workshop supplements Physics for Life Sciences I. The tutorial sessions focus on reasoning and hands-on problem solving. May be repeated up to 1 credits.

Corequisite(s): PHYS 2230G.

PHYS 2240G. General Physics for Life Science II 3 Credits (3)

This algebra-based course covers electricity, magnetism, light, atomic physics, and radioactivity. Special emphasis is given to applications in the life sciences This course is recommended for students in the life sciences and those preparing for the physics part of the MCAT. May be repeated up to 3 credits.

Prerequisite(s): a C- or better in PHYS 1230G or PHYS 2230G, and MATH 1220G or higher.

PHYS 2240L. Laboratory to General Physics for Life Science II 1 Credit (1)

Laboratory experiments in topics associated with material presented in PHYS 2240.

Prerequisite(s)/Corequisite(s): PHYS 2240G. Restricted to Las Cruces campus only.

PHYS 2241. Supplemental Instruction to General Physics for Life Sciences II

1 Credit (1)

This optional workshop is a supplement to Physics for Life Science II. The tutorial sessions focus on reasoning and hands-on problem solving. May be repeated up to 1 credits.

Corequisite(s): PHYS 2240G.

PHYS 2996. Special Topics

1-3 Credits

Topics to be announced in the Schedule of Classes. May be repeated for a maximum of 12 credits.

PHYS 2997. Independent Study

1-3 Credits

Individual analytical or laboratory studies directed by a faculty member. May be repeated for a maximum of 6 credits.

Prerequisite: consent of instructor.

PL-S-PARALEGAL SERVICES (PL S)

PL S 160. Legal System for the Paralegal

3 Credits (3)

Introduction to the court system, administrative agencies, functions of law offices, and professional conduct and legal ethics. Restricted to: Community Colleges only.

Prerequisite(s): ACT standard score in English of 16 or higher or a Compass score 76 or higher; for those scoring 13-15 in English on ACT or 35-75 on Compass, successful complete of CCDE 105N or CCDE 110N; for those scoring 12 or below on the ACT standard score in English or 34 or below on the Compass, successful completion of CCDE 105N & CCDE 110N.

PL S 161. Legal Terminology

3 Credits (3)

Survey of the language of the law that will serve either as an introductory course or as a review course to prepare students for the certification test.

PL S 162. The Virtual Law Office

3 Credits (3)

The Virtual Law Office class is a 'hands-on', project oriented course designated to provide the student with the basic law office skills needed to function successfully in a law office setting. The student will gain a practical, working knowledge of the procedures necessary to work in a law office. The skills learned in the class will directly translate to real life situations. Restricted to: Community Colleges only.

Prerequisite(s): PLS 160.

PL S 180. Constitutional Law for the Paralegal

3 Credits (3)

Case standing of the law of the Constitution and Bill of Rights with regard to day-to-day applications in the law practice. Documents dealing with constitutional problems in both civil and criminal areas of law will be drafted and discussed.

Prerequisite: PLS 160.

PL S 190. Criminal Law for the Paralegal

3 Credits (3)

Introduction to federal and state criminal law; criminal proceedings, prosecution and defense, sentencing and appeal.

Prerequisite: PL S 160.

PL S 200. Legal Ethics for the Paralegal

3 Credits (3)

Introduction to ethical dilemmas faced in the workforce and the rules of ethics developed by the American Bar Association, various national paralegal organizations, and the Supreme Court of New Mexico.

Restricted to: Community Colleges only.

Prerequisite(s): PL S 160.

PL S 203. Immigration Law

3 Credits (3)

Survey of the basics of immigration law including the rights and obligations of citizenship and the naturalization process.

Prerequisite: PL S 160.

PL S 221. Internship I

2-4 Credits

Work experience that directly relates to a student's major field of study that provides the student an opportunity to explore career paths and apply knowledge and theory learned in the classroom. Internships can be paid or unpaid. Students are supervised/evaluated by both the employer and the instructor. Restricted to Community Colleges campuses only.

Prerequisite(s): PL S 274.

PL S 222. Internship II

1-3 Credits

Continuation of PLS 221. Each credit requires specified number of hours of on-the-job work experience. Restricted to Community Colleges campuses only.

Prerequisite(s): PL S 221.

PL S 231. The Law of Commerce for the Paralegal 3 Credits (3)

Law of contracts, negotiable instruments, bank transfers, secured transactions, debtor-creditor relations, agency, and business types and their formation. Students will study the relevant statutes as well as draft documents associated with these types of legal practice. Restricted to: Community Colleges only.

Prerequisite(s): PL S 160.

PL S 272. Bankruptcy Law for the Paralegal

3 Credits (3)

Individual and corporate bankruptcy; the basic principles and processes of bankruptcy law as a system of debtor relief and debt collection.

Prerequisite: PL S 160.

PL S 274. Legal Research and Writing for the Paralegal I 3 Credits (3)

Legal memoranda, briefs, and pleadings will be prepared and written based on the student's original research. Research materials and techniques will be identified and studied; introduction of computer usage in legal research.

Prerequisite: PL S 160 and ENGL 1110G.

PL S 275. Tort and Insurance for the Paralegal

3 Credits (3)

Primary legal principles of tort and insurance law and means of establishing insurance plans, types of torts and insurance, as well as use of specific forms and procedures relating to these areas.

Prerequisite: PL S 160.

PL S 276. Wills, Trusts, and Probate for the Paralegal 3 Credits (3)

Cases and statutes dealing with wills, trusts, and probate. Emphasis on preparation and drafting of documents and the application of the law and documents to the client s problems.

Prerequisite: PL S 160.

PL S 277. Family Law for the Paralegal

3 Credits (3)

Methods of conducting client interviews and drafting of pleadings and research relative to families. Laws relating to marriage, divorce, custody, support, adoption, name change, guardianship, and paternity.

Prerequisite: PL S 160.

PL S 278. Litigation for the Paralegal

3 Credits (3)

The law of procedure and evidence will be considered through rules and cases. Case situations will be used to identify and solve problems.

Prerequisite: PL S 160.

PL S 279. Legal Research and Writing for the Paralegal II 3 Credits (3)

Continuation of PL S 274. Advanced training in legal research problems with a focus on analysis, writing, and preparation of sophisticated legal memoranda and documents.

Prerequisite: PL S 274.

PL S 280. Interviewing and Investigation for the Paralegal 3 Credits (3)

Techniques of legal interviewing and investigation with emphasis on development of human relations and communication skills.

Prerequisite: PL S 160.

PL S 298. Independent Study

1-3 Credits (1-3)

Individual studies directed by consenting faculty with prior approval by department head. Restricted to Community Colleges campuses only. **Prerequisite(s):** PL S 160.

POLS-POLITICAL SCIENCE

POLS 1110G. Introduction to Political Science 3 Credits (3)

This course covers fundamental concepts in political science, such as political theories, ideologies, and government systems.

POLS 1111. Introductory Government Seminar 1 Credit (1)

Introduction to the government major. Designed to assist students in planning college experience and preparing for professional or advanced educational opportunities upon graduation. Graded: S/U. Restricted to: Main campus only.

POLS 1120G. American National Government

3 Credits (3)

This course explains the role of American national government, its formation and principles of the Constitution; relation of state to the national government; political parties and their relationship to interest groups. This course also explains the structure of the legislative, executive, and judicial branches.

POLS 1130G. Issues in American Politics

3 Credits (3)

This course is designed to introduce the students to the contemporary study of American political issues. The course analysis of government policies, examining various approaches to the economy, democracy and the structure and the function of American political institutions.

POLS 2120G. International Relations

3 Credits (3)

This course covers the analysis of significant factors in world politics, including nationalism, national interest, political economy, ideology, international conflict and collaboration, balance of power, deterrence, international law, and international organization.

POLS 2996. Special Topics

3 Credits (3)

Specific topics to be announced in Schedule of Classes. Community Colleges only. May be repeated for a maximum of 12 credits.

PORT-PORTUGUESE (PORT)

PORT 1110. Portuguese I

3 Credits (3)

Designed for students with no previous exposure to Portuguese, this course develops basic listening, speaking, reading, and writing skills. This is an introductory course aimed at teaching the student to communicate in Portuguese in everyday situations.

PORT 1120. Portuguese II

3 Credits (3)

A continuation of Portuguese I, students will develop a broader foundation in skills gained during the first semester, including understanding, speaking, reading and writing Portuguese. Students will also gain more in- depth knowledge of Portuguese-speaking cultures.

Prerequisite: C or better in PORT 1110 or consent of instructor.

PSYC-PSYCHOLOGY

PSYC 1110G. Introduction to Psychology

3 Credits (3)

This course will introduce students to the concepts, theories, significant findings, methodologies, and terminology that apply to the field of psychology.

PSYC 2221. Applied Psychology

3 Credits (3)

Explanation of the psychological principles of everyday living. Emphasizes motivation, learning of intelligent behavior, and applications of psychology to social issues. Community Colleges only.

PSYC 2230. Psychology of Adjustment

3 Credits (3)

This course focuses on the individual's adjustment to society, and the application of psychological principles to the understanding of adjustment.

PSYC 2311. A Study of Substance Abuse through Learning 3 Credits (3)

Physiological and psychological impact of drug use on human behavior. Emphasizes practical applications of intervention and prevention in the community. Community Colleges only.

RADT-RADIOLOGIC TECHNOLOGY (RADT)

RADT 100. Introduction to Radiologic Technology and Patient Care 2 Credits (2)

Overview of the profession, including ethics, terminology, and basic radiation protection. Addresses basic and specialized procedures and topics related to the care of the patient. Restricted to: Community Colleges only. Restricted to Majors.

RADT 101. Radiographic Positioning I 4 Credits (2+6P)

Covers radiographic procedure and positioning concepts, techniques, terminology, and mechanics related to the thorax, abdomen, extremities, spine and pelvis. Includes positioning lab and clinical observation.

RADT 102. Radiographic Positioning II 4 Credits (2+6P)

Continuation of RADT 101. Includes skull, gastrointestinal, urinary, reproductive, biliary systems, and more advanced skeletal positions. Includes positioning lab and clinical observation.Restricted to: Community Colleges only. Restricted to Majors.

Prerequisite: RADT 101.

RADT 103. Introduction to Radiographic Imaging 3 Credits (2+2P)

Provides the student with an in-depth knowledge of radiographic exposure technique and the factors affecting radiographic film quality. Includes lab experiments. Restricted to majors.

RADT 104. Special Radiologic Modalities 2 Credits (2)

Discussion of various special procedures used in medical imaging such as, angiography, ultrasound, computerized tomography, magnetic resonance imaging, digital imaging, nuclear medicine, radiation therapy, etc. Includes guest lectures and field trips.

Prerequisite: RADT 103.

RADT 105. Radiographic Physics and Equipment 3 Credits (3)

Fundamentals of rad physics. Includes electromagnetism, x-ray production and interactions, x-ray circuitry, tubes, grids, screens, AES, fluoroscopic and portable units, beam restricting devices, calibration and quality assurance/control. Overview of mammography, US, CT, MRI, and digital radiography. Restricted to: Community Colleges only. Restricted to Majors.

Prerequisite: RADT 103 or consent of instructor.

RADT 110. Radiographic Pathology

1 Credit (1)

Overview of pathology demonstrated by radiographic procedures. Restricted to majors.

Prerequisite: RADT 154.

RADT 154. Radiographic Anatomy and Physiology

3 Credits (3)

Basic A&P for radiographic application. Includes a systems approach to body structures and organs as they relate to anatomical projections, radiographic identification, and various imaging modalities. Restricted to: RADT majors. Restricted to: Community Colleges only.

Prerequisite(s): AHS 153 or AHS 140 or BIOL 2210 or BIOL 1130, or consent of instructor.

RADT 156. Independent Study

1-6 Credits (1-6)

Individual studies/research on topics related to the radiological sciences. May be repeated for a maximum of 6 credits. Restricted to: Community Colleges only.

RADT 190. CT Equipment and Methodology

3 Credits (3)

Skill development in the operation of computed tomographic equipment, focusing on routine protocols, image quality, and quality assurance and radiation protection. May be repeated up to 3 credits. Restricted to: CTOM or RADT majors. Restricted to Community Colleges campuses only.

RADT 200. Radiation Biology and Protection

2 Credits (2)

Biological effects of ionizing radiation on cells and tissues. Includes radiation measurements, policies and protection measures for self, patients, and others. Restricted to majors. Restricted to: Community Colleges only.

Prerequisite(s): RADT 103.

RADT 201. Clinical Education I

7 Credits (32P)

Supervised practice in a radiology department under direct supervision of a registered technician. Includes film critiques. Community Colleges Only. Restricted to: RADT,OERT majors. Restricted to Community Colleges campuses only.

Prerequisite(s): RADT 105.

RADT 202. Clinical Education II

11 Credits (33P)

Continuation of RADT 201. Student will work under indirect supervision of registered personnel. May be repeated up to 11 credits. Restricted to: OERT,RADT majors. Restricted to Community Colleges campuses only. **Prerequisite(s):** OERT 201.

RADT 203. Clinical Education III

11 Credits (33P)

Continuation of RADT 202. May be repeated up to 11 credits. Restricted to: RADT,OERT majors. Restricted to Community Colleges campuses only. **Prerequisite(s):** RADT 202.

RADT 205. Radiographic Image Critique

1 Credit (1)

Review of radiographs produced in clinical settings to evaluate anatomy and technical issues. Restricted to majors.

Prerequisite: RADT 201.

RADT 206. Applied Radiographic Procedures

2 Credits (1+3P)

Advanced course which integrates the principles and techniques of radiologic technology. Restricted to majors.

Prerequisite: RADT 202.

RADT 207. Cross Sectional Anatomy for Medical Imaging 3 Credits (3)

Anatomic relationships that are present under various sectional orientations as depicted by computed tomography or magnetic resonance imaging. May be repeated up to 3 credits. Restricted to: CTOM or RADT majors. Restricted to Community Colleges campuses only.

RADT 208. Clinical I (Computed Tomography) 3 Credits (9P)

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. Direct supervision is provided by the clinic professional. May be repeated up to 3 credits. Restricted to: RADT or CTOM majors. Restricted to Community Colleges campuses only.

RADT 209. Clinical II (Computed Tomography) 3 Credits (9P)

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. Direct supervision is provided by the clinic professional. (Capstone Course). May be repeated up to 3 credits. Restricted to: CTOM or RADT majors. Restricted to Community Colleges campuses only.

RESP - RESPIRATORY THERAPY (RESP)

RESP 110. Respiratory Therapy I

3 Credits (3)

Introduction to basic respiratory care techniques. Includes history, professional organizations, medical gas administration, oxygen therapy, cardiopulmonary AP, patient assessments, and medical terminology. Requires a C or better to remain in program. Restricted to: Community Colleges only. Restricted to DA-RESP-AA majors.

RESP 110 L. Respiratory Therapy I Lab

2 Credits (2)

Laboratory practice of basic respiratory care procedures. Requires a C or better to remain in program. Restricted to: Community Colleges only. Restricted to DA-RESP-AA majors.

RESP 115. Respiratory Therapy Pharmacology

3 Credits (3)

Concepts of physics as they apply to the physiology of the lungs. Requires a C or better to remain in program. Restricted to: Community Colleges only. Restricted to DA-RESP-AA majors.

RESP 120. Respiratory Therapy II

4 Credits (4)

Advanced respiratory care techniques. Emphasis on airway management, aerosol treatment, chest physiotherapy, pharmacology, posture pressure breathing, and pulmonary rehabilitation. Requires a C or better to remain in program. May be repeated up to 4 credits. Students must be admitted into program to enroll in this course. Restricted to Community Colleges campuses only.

Prerequisite(s): RESP 110. Corequisite(s): RESP 120 L.

RESP 120 L. Respiratory Therapy II Lab

2 Credits (6P)

Continuation of lab practices and procedures learned in RESP 120, Respiratory Care II, using equipment and simulations. Requires a C or better to remain in program. Students must be admitted to the program to enroll in this course. Corequisite(s):RESP 120. Restricted to: Community Colleges only. Restricted to RESP majors.

Prerequisite(s): RESP 110, RESP 110L and RESP 112.

RESP 124. Respiratory Therapy II Clinical

3 Credits (9P)

Supervised practice and application in a hospital setting. Requires a C or better to remain in program. Students must be admitted into program to enroll in this course. Restricted to: Community Colleges only. Restricted to RESP majors.

Prerequisite(s): RESP 110, RESP 110L and RESP 112.

Corequisite(s): RESP 120 and RESP 120L.

RESP 155. Respiratory Therapy Special Topics

Topics to be announced in the Schedule of Classes. May be repeated for a maximum of 10 credits. Consent of instructor required. Restricted to: Community Colleges only. Restricted to RESP majors.

Prerequisite(s): Admission to program.

RESP 210. Respiratory Therapy III

2 Credits (2)

Introduction to adult, mechanical, neonatal ventilator theory and concepts of critical care medicine. Requires a C or better to remain in program. Students must be admitted into program to enroll in this course. Restricted to: Community Colleges only. Restricted to RESP majors.

Prerequisite(s): RESP 115, RESP 120, RESP 120L, and RESP 124.

Corequisite(s): RESP 210L.

RESP 210 L. Respiratory Therapy III Lab

2 Credits (2)

Advanced practice procedures using mechanical ventilation devices. Requires a C or better to remain in program. Students must be admitted into program to enroll in this course. Restricted to: Community Colleges only. Restricted to RESP majors.

Prerequisite(s): RESP 115, RESP 120, RESP 120 L, and RESP 124.

Corequisite(s): RESP 210.

RESP 224. Respiratory Therapy IV Clinical

3 Credits (9P)

Continuation of RESP 124. Emphasis on mechanical ventilators. Requires a C or better to remain in program. Restricted to: Community Colleges only. Restricted to RESP majors.

Prerequisite(s): Admission to program, and RESP 115, RESP 120, RESP 120 L, and RESP 124.

RESP 230. Respiratory Therapy V

3 Credits (3)

Continuation of RESP 215. Emphasis on special modalities. Requires a C or better to remain in program. Restricted to: Community Colleges only. Restricted to DA-RESP-AA majors.

RESP 230 L. Respiratory Therapy V Lab

2 Credits (2)

Advanced practice and procedures of respiratory care. Requires a C or better to remain in program. Restricted to: Community Colleges only. Restricted to DA-RESP-AA majors.

RESP 233. Respiratory Therapy Cardiopulmonary 2 Credits (2)

Concepts of physics as they apply to the physiology of the lung. Emphasis on laws pertaining to gas flow, humidity, and the mechanics of the breathing process. Requires a C or better to remain in program. Restricted to: Community Colleges only. Restricted to DA-RESP-AA majors.

RESP 234. Respiratory Therapy V Clinical

3 Credits (3)

Continuation of RESP 214. Emphasis on special modalities. Restricted to: Community Colleges only. Restricted to DA-RESP-AA majors.

RESP 240. Respiratory Therapy VI

3 Credits (3)

Advanced theory of hemodynamics, neonate, pediatric, and new specialties that apply to respiratory care. Requires a C or better to remain in program. Students must be admitted into program to enroll in this course. Restricted to: Community Colleges only. Restricted to RESP majors.

Prerequisite(s): RESP 230, RESP 230L, RESP 233 and RESP 234.

Corequisite(s): RESP 240L.

RESP 240 L. Respiratory Therapy VI Lab

2 Credits (6P)

Advanced laboratory practice and procedures. Requires a C or better to remain in program. Students must be admitted into program to enroll in this course. Restricted to: Community Colleges only. Restricted to RESP majors

Prerequisite(s): RESP 230, RESP 230L, RESP 233 and RESP 234.

Corequisite(s): RESP 240.

RESP 242. Pediatric Advanced Life Support (PALS) 1 Credit (1)

Etiology, diagnosis, clinical manifestations, and management of cardiopulmonary disorders related to respiratory care. Restricted to majors.

Corequisite(s): RESP 230.

RESP 243. Respiratory Therapy Neonatal Resuscitation 1 Credit (1)

Advanced practice of the neonatal resuscitation and certification. Students must be admitted into program to enroll in this course. Restricted to: Community Colleges only, Restricted to RESP majors. Prerequisite(s): RESP 230, RESP 230L, RESP 233, and RESP 234. Corequisite(s): RESP 240 and RESP 244.

RESP 244. Respiratory Therapy VI Clinical

3 Credits (9P)

Clinical experience on special modalities. Requires a C or better to remain in program. Students must be admitted into program to enroll in this course. Restricted to: Community Colleges only. Restricted to RESP

Prerequisite(s): RESP 230, RESP 230L, RESP 233 and RESP 234. Corequisite(s): RESP 240.

RESP 255. Respiratory Therapy Special Topics 1-4 Credits

Specific subjects to be announced in the Schedule of Classes. May be repeated for a maximum of 4 credits. Consent of instructor required. Restricted to: Community Colleges only. Restricted to RESP majors. Prerequisite(s): Admission to program.

RGSC-RANGE SCIENCE (RGSC)

RGSC 1110. The Range Science Profession

1 Credit (1)

Introduction to scientific disciplines and career opportunities in rangeland science and management.

RGSC 2110. Introduction to Rangeland Management 3 Credits (3)

This course covers the principles of managing and understanding pasture and rangelands. Plant physiology and ecology, plant communities and rangeland sustainability and how they relate to livestock production and wildlife management will be discussed. Restricted to: Main campus only.

RGSC 2996. Special Topics

1-4 Credits

Specific subjects and credits announced in the Schedule of Classes. Maximum of 4 credits per semester and a grand total of 9 credits.

SIGN-SIGN LANGUAGE

SIGN 1110. American Sign Language I 3 Credits (3)

American Sign Language I is an introductory level language course in the language of the American Deaf Culture. Content includes ASL vocabulary and conversational skills; linguistic features of ASL; and skills in narrative/storytelling. In-class activities, comprehension and expressive examinations, narrative and storytelling assignments in addition to semester projects are venues for students to demonstrate their learning. In addition, Deaf Culture and Deaf Community issues are addressed.

SIGN 1120. American Sign Language II 3 Credits (3)

American Sign Language II is a continuation course that builds on concepts and skills developed in American Sign Language I. Students gain further exposure to ASL structure and grammar, and Deaf Culture and the Deaf community. Emphasis is on increasing students' ability to comprehend other signers and express themselves with more elaboration when conversing or presenting in ASL.

Prerequisite: SIGN 1110 or consent of instructor.

SIGN 2110. American Sign Language III 3 Credits (3)

This is an intermediate level course in American Sign Language (ASL). Expected areas of intermediate skill and knowledge development include: language comprehension and production, conversational use, narratives, ASL language features and further knowledge of and interaction with Deaf culture and the Deaf community.

Prerequisite: SIGN 1120.

SMET-SCIENCE/MATH/ENG/TECH (SMET)

SMET 201. Research for Visiting Community College Students 1 Credit (1)

Research experience for visiting community college students. Consent of instructor required. Restricted to: Main campus only.

SOCI-SOCIOLOGY

SOCI 1110G. Introduction to Sociology 3 Credits (3)

This course will introduce students to the basic concepts and theories of sociology, as well as to the methods utilized in sociological research. The course will address how sociological concepts and theories can be utilized to analyze and interpret our social world, and how profoundly our society and the groups to which students belong influence them. Students will be given the opportunity to challenge their "takenforgranted" or "common sense" understandings about society, social institutions, and social issues. Special attention will also be paid to the intimate connections between their personal lives and the larger structural features of social life. In addition, the implications of social inequalities, such as race/ethnicity, gender, and social class will be central to the course's examination of social life in the United States.

SOCI 2230. Sociology of Sexuality

3 Credits (3)

This course explores all aspects of human sexuality from a sociological perspective. Topics include, but are not limited to, sex work, intimate relationships, sexual response, political movements, power, and the social construction of sexuality. The course also considers how various social statuses such as ethnicity, gender, and social class intersect with sexuality.

SOCI 2240. Sociology of Intimate Relationships and Family 3 Credits (3)

This course provides an overview of contemporary intimate relationships and families from sociological perspectives. We will examine intimate relationships and families as social constructions whose meanings have changed over time and from place to place. This course will aid students in developing a greater understanding of intimate relationships and families as institutions in contemporary U.S. society. Intersections of race, class, gender, sexual orientation, nationality, and other factors within these institutions will be addressed. Community Colleges only.

SOCI 2261. Issues in Death and Dying 3 Credits (3)

Major personal and social issues related to the process of dying in our culture. Community Colleges only.

SOCI 2310G. Contemporary Social Problems 3 Credits (3)

This course studies the nature, scope, and effects of social problems and their solutions. The course will concentrate on sociological perspectives, theories, and key concepts when investigating problems, such as inequality, poverty, racism, alienation, family life, sexuality, gender, urbanization, work, aging, crime, war and terrorism, environmental degradation, and mass media. This course is designed to build students' sociological understanding of how sociological approaches attempt to clarify various issues confronting contemporary life, as well as how sociologists view solutions to these problems.

SOIL-SOIL (SOIL)

SOIL 2110. Introduction to Soil Science 3 Credits (3)

An overview of fundamental concepts in soil science and soils as a natural resource. Students will be introduced to the physical, chemical, and biological properties as it relates to soil management in environmental science, conservation, and agronomy. Prerequisite: (CHEM 1120G or MATH 1215 or higher) or CHEM 1215G

SOIL 2110L. Introduction to Soil Science Laboratory 1 Credit (1)

Morphological, chemical, physical and biological properties of soil in the laboratory and field.

Corequisite(s): SOIL 2110.

SOIL 2996. Special Topics

1-4 Credits

Specific subjects and credits to be announced in the Schedule of Classes. Maximum of 4 credits per semester. No more than 9 credits toward a degree. May be repeated up to 9 credits. Consent of Instructor required.

SOWK-SOCIAL WORK

SOWK 2110G. Introduction to Human Services & Social Work 3 Credits (3)

This course is for students who are interested in social welfare issues and/or are considering entering a social service profession. The course presents an overview of social problems, issues and trends, and the network of social agencies developed to address these concerns. The course examines the influence of personal and professional values and ethics on the helping relationship. The concept of social welfare will be discussed from a social work perspective (with an emphasis on social justice), and students will gain a basic understanding of social work in U.S. society, social work career opportunities, and contemporary issues facing social workers. Approaches relevant to work with individuals, families, groups and communities are presented, with special emphasis on Hispanic and Indigenous populations of New Mexico and the Southwest.

SOWK 2111. Women's Issues in Social Work 3 Credits (3)

Examines gender-specific social problems and their identification and resolution through the use of social agencies and community resources. Community Colleges only.

SPAN-SPANISH (SPAN)

SPAN 1110. Spanish I

4 Credits (4)

Designed for students with little exposure to Spanish, this course develops basic listening, speaking, reading, and writing skills and basic intercultural competence in interpretive, interpersonal and presentational modes of communication at the Novice Level of proficiency based on ACTFL guidelines. During this course, students perform better and stronger in the Novice Mid level while some abilities emerge in the Novice High range. This is an introductory course aimed at helping the student to communicate in Spanish in everyday familiar situations via recognition and production of practiced or memorized words, phrases, and simple sentences

Prerequisite(s): language placement and/or assessment by departmental examination.

SPAN 1120. Spanish II 4 Credits (4)

Designed for students with some degree of exposure to Spanish in high school and/or at home, this course continues to develop basic listening, speaking, reading, and writing skills and basic intercultural competence in interpretive, interpersonal and presentational modes of communication based at the Novice High Level of proficiency based on ACTFL guidelines, although a few abilities may emerge in the Intermediate Low Level. Students in this course communicate in Spanish in familiar topics using a variety of words, phrases, simple sentences and questions that have been highly practiced and memorized.

Prerequisite: language placement and/or assessment by departmental examination or a C- or better in SPAN 1110.

SPAN 1210. Elementary Spanish for Heritage Learners I 3 Credits (3)

This is a beginning-level Spanish course designed for students who have a cultural connection to the Spanish language. Some students have had very little exposure to the language and enter the class to develop beginning-level skills. Other students may have grown up hearing the heritage language in the community and may understand some Spanish and speak at a basic level as a result. The objective is to draw upon the connection to the heritage language as a source of motivation and engagement for our learning communities. At the same time, we build upon the language base that students may already have as a result of their heritage learner experience in order to develop new proficiencies in Spanish and reactivate the Spanish that students have learned previously. By the end of this course, students will be able to describe their home, campus surroundings and common activities including cultural traditions. At the same time, students gain cultural competency and develop a critical understanding of their linguistic and cultural background. Students who have previously earned a C or better in SPAN 1110 or SPAN 1120 may not recieve credit for this course.

SPAN 1220. Spanish for Heritage Learners II 3 Credits (3)

Spanish as a Heritage Language II is a second semester class designed for students who have developed some basic Spanish proficiency from previous classes and/or from community experiences. This course provides students with the opportunity to develop their proficiency in the four language skills (speaking, listening, reading, and writing). Class activities are designed to strengthen oral communication skills (speaking and listening) through a variety of group activities. By the end of the course students will be able to understand and produce narrations of past events in oral and written Spanish. In order to foster a desire to revitalize and maintain the Spanish language in the US context we attempt to raise students' critical awareness of what it means to be part of a specific speech community.

SPAN 2110. Spanish III 3 Credits (3)

This course is based on the integration of learning outcomes across Interpersonal, Interpretive, and Presentational Modes of Communication at the Intermediate Low Level of proficiency based on ACTFL guidelines. Students accomplish real-world communicative tasks in culturally appropriate ways as they gain familiarity with the target culture(s). This is an intermediate course aimed at helping the student to communicate in Spanish on familiar topics about self, others and everyday life at the same time that they recognize and handle short social interactions in interactions in everyday situations by asking and answering a variety of questions.

Prerequisite: language placement and assessment by departmental examination or C or better in SPAN 1120.

SPAN 2120. Spanish IV 3 Credits (3)

This course is based on the integration of learning outcomes across Interpersonal, Interpretive, and Presentational Modes of Communication at the Intermediate Low Level of proficiency based on ACTFL guidelines. Students accomplish real-world communicative tasks in culturally appropriate ways as they gain familiarity with the target culture(s). This is an intermediate course aimed at helping the student to communicate in Spanish on familiar topics about self, others and everyday life at the same time that they recognize and handle short social interactions in interactions in everyday situations by asking and answering a variety of questions.

Prerequisite: language placement and assessment by departmental examination or C or better in SPAN 2110.

SPAN 2210. Spanish for Heritage Learners III 3 Credits (3)

Intermediate Spanish for Heritage Speakers I is a third semester course designed for students who have been raised in a Spanish-speaking environment and speak, or understand, some Spanish as a result of hearing it in the home, and in the community by family, friends, and neighbors. Students in this course will continue to develop their ability to narrate events in the past and will be able to describe hypothetical situations. Students will also develop their ability to express wishes, desires, and necessities. This course will help the student build confidence in their Spanish abilities and expand the language use in the areas of writing, reading, oral production and listening comprehension. In order to foster a desire to revitalize and maintain the Spanish language we attempt to raise students' critical awareness of wider issues facing Spanish speakers in the US context.

SPED-SPECIAL EDUCATION (SPED)

SPED 2130. Society

3 Credits (3)

Development of culturally responsive learning strategies, skills and utilization of support services, to enchance academic achievement. Restricted to: Main campus only.

SPED 2996. Topics

3 Credits (3)

Offered under various subtitles that indicate the subject matter to be covered. May be repeated 3 times for a maximum of 9 credits.

SPHS-SPEECH & HEARING SCIENCE

SPHS 2110. Introduction to Communication Disorders 3 Credits (3)

This introductory course provides an overview of common speech, language, and hearing disorders in children and adults including etiologies, characteristics, prevention, identification, assessment and intervention. The course provides an overview of the field of speech-language pathology and audiology.

SPMD-SPORTS MEDICINE

SPMD 1110. Introduction to Athletic Training 3 Credits (3)

Introduction to the principles of athletic training. May be repeated up to 3 credits. Consent of Instructor required. Restricted to Las Cruces campus only.

SPMD 1120. Medical Terminology

3 Credits (3)

Study of the structure of medical language with emphasis on sports medicine-related terminology. To include analysis and interpretation of medical documentation. Restricted to: Las Cruces campus only.

SPMD 1190. Clinical Practicum I 2 Credits (2)

Introduction to the clinical aspects of the athletic training education program. Must maintain at least 3.0 GPA. May be repeated up to 4 credits. Consent of Instructor required. Restricted to: Athletic Training majors. Restricted to Las Cruces campus only.

SPMD 1195. Clinical Practicum II

3 Credits (3)

Athletic training related content and psycho-motor skills are introduced, enhanced, and assessed in the classroom and clinical rotations. Emphasis is on competencies and proficiencies previously instructed in didactic courses while providing increased depth of understanding and clinical practice. Must maintain a 3.0 GPA. May be repeated up to 3 credits. Consent of Instructor required. Restricted to: Athletic Training majors.

SPMD 1310. Introduction to Kinesiology

3 Credits (3)

An introduction to the field of Kinesiology which will explore areas such as exercise physiology, sport and exercise psychology, motor behavior, biomechanics, strength and conditioning, exercise prescription, as well as professional and graduate programs, and allied health and applied careers opportunities.

SPMD 1350. Social Foundations of Physical Activity 3 Credits (3)

Historical and cultural foundations and vocational, scientific, and educational data on careers in health education, physical education, and recreation.

SPMD 2130. Emergency Response in Sports Medicine 2 Credits (2)

Designed to provide knowledge and experience in emergency care procedures, blood borne pathogens, and first aid. Students will receive certification in CPR/AED for the Professional Rescuer and in First Aid, upon successful completion of course. May be repeated up to 4 credits. Restricted to Las Cruces campus only.

Prerequisite(s): Consent of Instructor.

SPMD 2210. Anatomy and Physiology I 3 Credits (3)

Detailed study of the structure and function of the human musculoskeletal, cardiovascular, respiratory, and peripheral nervous systems. Designed specifically for students interested in allied health professions.

SPMD 2210L. Anatomy and Physiology Laboratory 1 Credit (1P)

Students will engage in activities designed to enhance appreciation of the anatomical structures related to the content areas for SPMD 2210. Restricted to Las Cruces campus only.

SPMD 2250. Fitness for Health and Sport 3 Credits (3)

A study of the fitness needs for health enhancement and sport participation. Restricted to: EXSC,KIN,P E,S ED,SP M majors.

SPMD 2310. Career Preparation

1 Credit (1)

From concept to implementation: Career exploration, setting up degree plans, finding graduate programs, developing professional resumes, writing letters of application, seeking letters of recommendation, and interview preparation. Graded: S/U Grading (S/U, Audit).

SUR-SURVEYING (SUR)

SUR 222. Plane Surveying

3 Credits (2+3P)

Theory and practice of geomatics as applied to plane surveying in the areas of linear measurements, angle measurements, area determination, differential and trigonometric leveling, and topographic mapping.

Crosslisted with: DRFT 222. **Prerequisite(s):** MATH 1250G.

SUR 264. Introduction to LIS

3 Credits (2+3P)

Introduction to land information systems. Land tenure systems, coordinate systems, computer methods.

Prerequisite(s)/Corequisite(s): DRFT 109. SUR 285. Precise Digital Mapping

3 Credits (3)

Photogrammetric Mapping Principles, digital sensor including optical cameras, terrestrial, surveying control, IMU & GPS integration, stereo photography, analytical triangulation, orthorectification, precision and accuracy of measurement systems, sUAS (Small Unmanned Aerial Vehicles) applications to geospatial data collection and practical applications project fight/pre planning, sensor platform, FAA regulations and restrictions, introduction to laser scanning systems. Restricted to Las Cruces campus only.

SUR 292. Public Land Survey System Boundaries 3 Credits (3)

Fundamentals of the U.S. Public Land Survey System; rules for the survey of the public lands, field surveys; the rectangular system, corners, monuments, evidence; dependent and independent resurveys, corner restoration; plats and field notes, patents. Restricted to Las Cruces campus only.

SURG-SURGICAL TECHNOLOGY (SURG)

SURG 120. Surgical Technology Clinical I 2-4 Credits (6P)

This is a health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. This course is designed to prepare the student to enter the surgical environment. This course provides an introduction to the operating room, observation of surgical procedures, direct participation in the preoperative (pre-op, intra-op, post-op) preparation of individual cases and professional roles and responsibilities of individual members of the surgical team. Direct supervision is provided by the clinical professional. May be repeated up to 4 credits. Students must be admitted into Surgical Technology Program to enroll in this course.

Prerequisite(s): BIOL 2310, BIOL 2210, BIOL 2225, NURS 150.

Corequisite(s): SURG 140, SURG 145.

SURG 140. Introduction to Surgical Technology 4 Credits (4)

This is an orientation to surgical technology theory, surgical pharmacology and anesthesia, technology sciences and patient care concepts and is designed to prepare the student to enter the surgical environment with entry-level knowledge necessary to understand patient responses to disease, illness, hospitalization, surgical procedures, commonly used pharmacological and anesthetic agents, and legal, moral, and ethical issues that could be encountered in the surgical environment. Restricted to Community Colleges campuses only.

Prerequisite(s): Admission to Surgical Technology Program; BIOL 2310, BIOL 2225, & NURS 150.

SURG 145. Fundamentals of Perioperative Concepts & Techniques 4-5 Credits (3+3P)

This is an in-depth coverage of perioperative concepts such as aseptic/ sterile principles and practice, infectious processes, wound healing and creation and maintenance of the sterile field. This course is designed to prepare the student to enter the surgical environment with entry-level knowledge of aseptic technique principles and practices, the creation and maintenance of the sterile field including equipment, supplies and instrumentation, and basic case preparation and procedures. An introduction to diseases and disease processes that may be displayed by the surgical patient and the patient's bodily responses to disease are also included. May be repeated up to 5 credits.

Prerequisite(s): Admission to Surgical Technology Program, BIOL 2310, BIOL 2210, BIOL 2225, & NURS 150.

SURG 150. Surgical Procedures I 4-5 Credits (3-5+3P)

This course is an introduction to surgical procedures and its related pathologies. Emphasis on surgical procedures related to general, obstetrics/gynecology, genitourinary, otorhinolaryngology and orthopedic surgical specialties incorporating instruments, equipment. It is designed to prepare the student to function actively in the surgical environment with entry-level knowledge of surgical procedures. This course expands the basic foundation principles and combines the study of common surgical procedures to include anatomy, physiology and pathophysiology. Specific patient care concepts, medications, instrumentation, equipment, supplies and complication related to selected surgical procedures will be discussed. Admission to Surgical Technology Program necessary to enroll in the course.

Prerequisite(s): SURG 140, SURG 145, and SURG 120.

SURG 155. Pharmacology for the Surgical Technology 2 Credits (2)

This is an orientation to surgical pharmacology and anesthesia and is designed to prepare the student to enter the surgical environment with knowledge necessary to categorize the classification of drugs, calculate drug dosages and identify the therapeutic use, routes of administration, indications, contraindications and adverse effects of pharmacologic agents used in the perioperative setting. This course is the foundation for the acquisition of program specific competencies as identified by the AST Core Curriculum. Restricted to Carlsbad campus only.

SURG 160. Surgical Procedures II 6 Credits (6)

This an introduction to surgical procedures and related pathologies. Emphasis on surgical procedures related to thoracic, peripheral vascular, plastic/reconstructive, ophthalmology, cardiac and neurological surgical specialties incorporating instruments. The course is designed to prepare the student to continue to function actively in the surgical environment with entry-level knowledge of more complex surgical procedures. This course expands the basic foundation principles and combines the study of complex surgical procedures to include anatomy, physiology, and pathophysiology. Specific patient care concepts, medications, instrumentation, equipment, supplies, and complications related to specific surgical procedures will be discussed. Realities of clinical practice and concepts of death and dying will also be discussed. Admission to Surgical Technology Program necessary to enroll in the course.

Prerequisite(s): SURG 150, SURG 260.

SURG 230. Professional Readiness 2 Credits (2)

This course transitions the student into professional readiness for employment, professional readiness for attaining certification and professional readiness for maintaining certification status. Admission to Surgical Technology Program necessary to enroll in the course. Prerequisite(s): SURG 140, SURG 145, SURG 120, SURG 150, SURG 260. Corequisite(s): SURG 160, SURG 265.

SURG 260. Surgical Technology Clinical II 4 Credits (12P)

This is a health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. This course is designed to provide the student the opportunity to function actively in the role as a surgical technologist and health care team member in a clinical setting under the direct supervision of faculty and health care staff. Applications of basic principles and practices combined with a supervised clinical experience participating in common surgical procedures is the focus. Admission to Surgical Technology Program necessary to enroll in the course. Restricted to Community Colleges campuses only.

Prerequisite(s): SURG 120, SURG 140, & SURG 145.

SURG 265. Surgical Technology Clinical III 4 Credits (9P)

This is a health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. This course is designed to provide the student the opportunity to function actively in the role of a surgical technologist and health care team member in a clinical setting under the direct supervision of faculty and health care staff. Refinement and application of basic principles and practices combined with entry-level employment competency expectations is the focus. Preparation for the National Certification Examination for Surgical Technologists is also included. Admission to Surgical Technology Program necessary to enroll in the course.

Prerequisite(s): SURG 260.

TCEN-ENVIRONMENTAL/ENERGY TECH (TCEN)

TCEN 101. Energy for the Next Generation 3 Credits (2+2P)

This course will survey a broad range of sources of energy, types of energy, energy storage, and the forms of energy. Students will be exposed to theory in the classroom, laboratory exercises, and field trips to provide them with a solid foundation for all subsequent energy related environmental courses. Crosslisted with: OETS 101.

Prerequisite(s)/Corequisite(s): OETS 118 or MATH 1215. Restricted to: Community Colleges only.

TCEN 105. Building Analyst I 3 Credits (2+2P)

This course is designed to provide the foundational knowledge and expertise necessary for the energy auditor and home performance contractor. Crosslisted with: OETS 105. Restricted to: Community Colleges only.

TCEN 106. Building Analyst II 3 Credits (2+2P)

Designed to prepare the student for the BPI Building Analyst Certification. This course will walk the student through the hands-on process of conducting visual building inspections, diagnostic testing, identifying improvement opportunities, documenting a home's performance and preparing a scope of work. Crosslisted with: OETS106.

Prerequisite(s)/Corequisite(s): TCEN 105 or OETS 105. Restricted to: Community Colleges only.

TCEN 110. Photovoltaic Application 4 Credits (3+2P)

This course will provide an introduction to Photovoltaic (PV) installation. The course will provide instruction on site selection, prep, installation, and maintenance for photovoltaic applications. Students that complete the course and have the opportunity to take the entry level exam with the North American Board of Certified Energy Practitioners (NABCEP) en route to becoming Certified Installers. Crosslisted with: OETS110.

Prerequisite(s)/Corequisite(s): TCEN 101 or OETS 101. Restricted to: Community Colleges only.

TCEN 111. Basic Electrical Principles I, DC Circuits 4 Credits (3+2P)

Course begins with the basics of electricity and DC circuits. Includes categorization of material properties within conductors, semiconductors, and insulators. Gradual progression tackles more complex topics like DC circuit analysis of series and parallel circuits, including Kirchhoff's laws, Thevenin's & Norton's theorems, and superposition. Finally DC combination circuits, magnetism and electromagnetism, generators and motors are covered. Emphasis on safety throughout. May be repeated up to 4 credits.

Prerequisite(s)/Corequisite(s): OETS 104 or MATH 1215. Restricted to Community Colleges campuses only.

TCEN 112. PV Power Generation Design Fundamentals 3 Credits (2+2P)

A study of photo voltaic design basics, photo voltaic (PV) Cells, modules, and system components; electrical circuits; grid-tied/grid-interactive PV system design and sizing for use on homes; solar electric products and applications; and understanding energy conversion from sunlight to electricity, and working with solar conversion equipment. May be repeated up to 3 credits.

Prerequisite(s)/Corequisite(s): TCEN 111 and (OETS 104 or MATH 1215). Restricted to Community Colleges campuses only.

TCEN 113. OSHA 10 Hour Construction Hazard Identifications 1 Credit

Intended for entry-level participants to provide instruction on a variety of construction safety and health standards. Topics include Introduction to OSHA, Electrical, Ladder, Excavation, Scaffold, and Forklift Hazards, Fall Protection, Materials Handling, Personnel Protective Equipment and Confined Space Entry Hazards. Meets OSHA 10-Hour Requirements.

TCEN 115. Wind Power Generation Design Fundamentals 3 Credits (2+2P)

Course covers wind turbine module descriptions and functions and wind system installation, operation, and troubleshooting. Additional topics include wind energy harvesting and the conversion process from the generator system to electricity. May be repeated up to 3 credits.

Prerequisite(s)/Corequisite(s): TCEN 111 and (OETS 104 or MATH 1215). Restricted to Community Colleges campuses only.

TCEN 121. Basic Electrical Principles II, AC Circuits 4 Credits (3+2P)

Course begins with an overview of the primary components of AC circuits, such as resistors, inductors, rectifiers, transformers and capacitors, and then gradually introduces new, more complicated topics like applying AC principles in power generation and generators, motors, parallel and combination circuits, troubleshooting and evaluation of circuit conditions. May be repeated up to 4 credits.

Prerequisite(s)/Corequisite(s): TCEN 111 and (OETS 104 or MATH 1215). Restricted to Community Colleges campuses only.

TCEN 156. Building Envelope 3 Credits (2+2P)

Designed to prepare the student for the BPI Building Envelope Certification. This course will provide the principles behind building performance testing and the purpose of completing a comprehensive energy audit. Through lecture and subsequent field training, the student will learn how to use building diagnostics to develop a prescriptive plan for enhancing comfort, health & safety, building durability, and energy savings. The student will learn how to outline the follow-up process required after completion of the retrofit. Crosslisted with: OETS156. Restricted to: Community Colleges only.

Prerequisite(s): TCEN 106 or OETS 106.

TCEN 205. NEC for Alternative Energy 4 Credits (2+4P)

This hands-on course will cover the National Electrical Code specifics concerning photovoltaic installation. Also code compliant wiring of basic electrical systems will be covered. Existing installations will be visited and studied. Restricted to: Community Colleges only.

Prerequisite(s): TCEN 101 and ELT 105.

TCEN 220. Cooperative Experience 1-3 Credits (1-3)

Supervised cooperative work program. Student is employed in an approved occupation and supervised and rated by the employer and instructor. May be repeated up to 6 credits. Consent of Instructor required.

Prerequisite(s)/Corequisite(s): MAT 235. Prerequisite(s): TCEN 180. Restricted to: TCEN majors. Graded: S/U Grading (S/U, Audit). Restricted to: Community Colleges only.

TCEN 221. Roofing Materials and Methods 3 Credits (2+2P)

Covers application techniques and estimation of asphalt and wood roofing products and accesories including gutters and flashing. Presents roof penetration, roof loading issues, and energy system installation requirements for mounting photo voltaic or solar thermal systems.

Prerequisite(s): TCEN 112.

TCEN 222. Photo Voltaic Grid Tie Installation 4 Credits (3+2P)

This is a more advanced course culminating in a PV system-to-grid connection. This course includes gathering site specific data, design, wire type and sizing specific to project, installation of all solar modules and balance of system (BOS)components, and grounding and bonding of system components, all in accordance with the latest NEC. Upon project design approval a system will be commissioned for the grid. Decommissioning will commence after measurements and troubleshooting as directed by the instructor. May be repeated up to 4 credits

Prerequisite(s)/Corequisite(s): TCEN 121 and TCEN 223. Prerequisite(s): TCEN 111 and TCEN 112. Restricted to Community Colleges campuses only.

TCEN 223. Photo Voltaic National Electrical Code Principles 2 Credits (2+1P)

Focuses on all sections of the National Electrical Code and local code requirements applicable to photo voltaic electrical installation. A partial list of areas covered is chapters one through four and section 690, 'Solar Photovoltaic Systems' of the National Electrical Code.

Prerequisite(s): TCEN 112.

Prerequisite(s)/Corequisite(s): TCEN 222.

TCEN 224. Field Experience

1-3 Credits (1-3)

Student will collaborate with instructor in proposing, defining, implementing, and analyzing outcomes of a project in the Environmental and Energy fields of study. May be repeated up to 6 credits. Consent of Instructor required. Restricted to: TCEN majors. Restricted to: Community Colleges only.

TCEN 241. Solar Thermal SHW Principles/Installation and Maintenance 3 Credits (2+2P)

Course presents the theory, installation, operation, and maintenance of solar hot water (SHW) systems. Topics include the types of systems to choose, the costs associated with SHW installation and operation, system sizing requirements, batteries and battery chemistry. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): OETS 104 or MATH 1215.

TCEN 246. Building Weatherization & Auditor Fundamentals 3 Credits (3)

Course provides information on how to locate air leaks and identify heat losses or gains through specific testing. Students will learn how to inspect and evaluate building envelopes, mechanical systems, and ventilation systems to determine the safety and energy consumption for each system. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): TCEN 113 and OETS 104.

Corequisite(s): TCEN 221.

TCEN 251. Advanced Photo Voltaic On/Off Grid Installation 3 Credits (2+2P)

Photo Voltaic advanced topics to include panel racking and installation, battery storage, charge controllers, mechanical integration of arrays on buildings, and key elements involved in choosing a mounting system. May be repeated up to 3 credits.

Prerequisite(s)/Corequisite(s): TCEN 222. Restricted to Community Colleges campuses only.

TCEN 252. NABCEP Entry-Level Exam Review 2 Credits (2)

Course presents knowledge, key terms, and concepts of photovoltaic systems and solar hot water systems as related to the NABCEP Entry-level exam. This exam is for those wanting to enter the workforce in either solar thermal or solar PV. Scheduling and taking the exam is the responsibility of the student. Consent of Instructor required. Restricted to Community Colleges campuses

Prerequisite(s): TCEN 222.

TCEN 253. Renewable Energy System Troubleshooting and Maintenance 3 Credits (2+2P)

Covers wind, solar and solar thermal system troubleshooting and maintenance topics to include equipment, electrical, and installation problem areas. May be repeated up to 3 credits.

Prerequisite(s)/Corequisite(s): TCEN 251. Prerequisite(s): TCEN 222. Restricted to Community Colleges campuses only.

TCEN 254. Renewable Energy Internship 2 Credits (2)

Student will receive industry-related renewable energy experiences at an approved industry location. Typical areas of hands-on practices will be installing solar PV, solar hot-water systems, or wind energy systems. May be repeated up to 6 credits. Consent of Instructor required. Restricted to Community Colleges campuses only.

Prerequisite(s): TCEN 112 and 113 and 222.

THEA-THEATER

THEA 1110G. Introduction to Theatre 3 Credits (3)

This course provides an introduction to the study of theatre. Students will examine various components that comprise theatre, such as acting, directing, playwriting, dramaturgy, scenic and costume design, stagecraft, spectatorship, history, theory, and criticism.

THEA 1210G. Acting for Non-Majors 3 Credits (3)

This class gives non-majors experience in the depth and craft of the actor's art. Students will learn various terms, techniques, and practices of acting and will demonstrate their understanding in class. Through exercises and improvisations, partnered scenes, and group work, students will be better able to appreciate the work of others as they learn techniques of performing. May be repeated up to 3 credits.

THEA 1221. Beginning Acting

3 Credits (3)

Basic understanding of self-expression through a variety of physical exercises, improvisation, and character study, culminating in scene or monologue work. Restricted to: THTR majors.

THEA 1222. Stage Movement

3 Credits (3)

Physical techniques for the actor to develop kinesthetic awareness and skills in characterization, archetypes, and stage combat. Restricted to: THTR majors.

THEA 1223. The Art of Theatre

3 Credits (3)

This course introduces the variety and scope of theatre professions, the value and goals of the theatre major and an analysis of the art form from script to stage. Restricted to: Required for THTR majors majors.

THEA 1310. Introduction to Costuming 3 Credits (3)

This course introduces students to basic skills generally used in creating costumes for theatre. During the semester students will be introduced to the costume shop, equipment, supplies, and processes. They will learn the process of sewing a garment and running a stage production.

Prerequisite(s)/Corequisite(s): THEA 1310L. Restricted to: THTR majors.

THEA 1310L. Costume Craft Lab

1 Credit (1)

Class members will assist in construction for productions in a studio environment.

Prerequisite(s)/Corequisite(s): THEA 1310.

THEA 1415. Running Crew I

2 Credits (1+2P)

Students learn about backstage and front of house production positions and work on a technical aspect of a product in a rehearsal and performance environment.

THEA 2221. Intermediate Acting: Scene Study and Monologues 3 Credits (3)

Monologues and scene work, using character and script analysis. Prerequisite(s):

Prerequisite(s): THEA 1221 or THEA 1210 with C- or above.

THEA 2222. Intermediate Acting for Non-Majors

3 Credits (3)

A continuation of THEA 1210 with an emphasis on monologues, scenes and characterization. Prerequisite(s): THEA 1210

THEA 2310. Stagecraft

3 Credits (3)

Student will explore basic skills for scenic designers and techniques of set construction for the stage, including building scenery, rigging, painting and properties.

Prerequisite(s)/Corequisite(s): THEA 2310L.

THEA 2310L. Stagecraft Laboratory

1 Credit (1)

Class members will assist with construction for productions in a studio environment.

Prerequisite(s)/Corequisite(s): THEA 2310.

THEA 2340. Introduction to Design

3 Credits (3)

Introduction into our visual world via the language of designers, focusing on collaboration, creative thinking and presentation skills. The varied design professions in theatre and the performing arts will be explored. Restricted to: Required of all THTR Majors.

THEA 2415. Running Crew II

1 Credit (1)

Students learn about backstage and front of house production positions and work on a technical aspect of a product in a rehearsal and performance environment.

THEA 2421. Vocal Production for the Actor 3 Credits (3)

Exploration and development of the actor's vocal instrument, including relaxation, projection, diction and articulation. May be repeated up to 3 credits. Restricted to: THTR majors.

THEA 2993. Theatre Workshop I

0.5 Credits (.5)

Required for all freshman and sophomore theatre majors, this course coordinates all processes within Theatre Arts, providing a forum for discussion and feedback. May be repeated up to 4 credits. Restricted to Las Cruces campus only.

THEA 2996. Theatre Topics

1-3 Credits (1-3)

Specific subjects to be announced in the Schedule of Classes. May be repeated for a maximum of 9 credits.

WATR-WATER UTILITIES (WATR)

WATR 120. Introduction to Water Systems

3 Credits (3)

Introduction to and theory of groundwater sources, production, treatment, and distribution.

WATR 130. Wastewater Collection and Basic Treatment Systems 3 Credits (3)

Introduction to wastewater characteristics, collection, and basic treatment operations.

WATR 140. Applied Water and Wastewater Math I

3 Credits (3)

Introduction to basic water and wastewater mathematics, flows through distribution networks and collection systems, and fundamentals of flow measurement.

Prerequisite: CCDM 114 N or equivalent.

WATR 160. Systems Maintenance

4 Credits (2+4P)

Basic tools, equipment, maintenance schedules, chlorinator troubleshooting, and chlorine safety. Hands-on training with valves, pumps, meters and chlorination equipment.

WATR 175. Programmable Logic Controllers

2 Credits (2)

This course will introduce students to electrical safety, theory, and the function, operations, programming and troubleshooting of the PLC controlling common electrical components utilized in control circuits associated with the water and wastewater industry. Restricted to: Community Colleges only.

WATR 180. Water Chemistry

3 Credits (3)

Basic chemistry with applications to water and wastewater analysis. **Prerequisite:** CCDM 114 N or consent of instructor.

WATR 182. Water Chemistry Analysis

1 Credit (3P)

Beginning water and wastewater laboratory analysis including gravimetric, volumetric, and quality control techniques.

Prerequisite: CCDM 114 N or equivalent or consent of instructor.

WATR 190. Water and Wastewater Microbiology

3 Credits (3)

Overview of microorganisms associated with water and wastewater. Growth and reproduction, energy production, and methods of counting.

Prerequisite: WATR 130, WATR 180, or consent of instructor.

WATR 192. Water and Wastewater Microbiological Analysis 1 Credit (3P)

Introduction to water and wastewater treatment operational tests such as BODs, solids testing, activated sludge control tests, use of microscope, and bacteriological techniques.

Prerequisites: WATR 130 and WATR 182, or consent of instructor.

WATR 200. Internship

3-5 Credits

On-the-job training/work experience with municipalities or industries, working in water or wastewater treatment plants, high purity water plants, industrial waste plants, distribution systems, or wastewater collection systems. May be repeated up to 5 credits. Consent of Instructor required. Restricted to: Water Technology majors. Graded: S/U Grading (S/U, Audit). Restricted to Community Colleges campuses only.

WATR 220. Water Treatment Systems 3 Credits (3)

Theory of water systems operation including surface water treatment, fluoridation, sodium zeolite softening, corrosion control, iron removal, various filtration methods, and overview of SDWA.

Prerequisites: WATR 180 and WATR 182 or consent of instructor.

WATR 222. Water Systems Operation

1 Credit (3P)

Operations of various water treatment systems including surface water treatment, sodium zeolite softeners, and various filtration methods.

Prerequisite: WATR 220 or consent of instructor.

WATR 230. Advanced Wastewater Treatment 4 Credits (4)

Calculations and operations involved in wastewater and water reclamation plants.

Prerequisites: WATR 140, WATR 190, and WATR 192, or consent of instructor.

WATR 232. Wastewater Systems Operations

1 Credit (3P)

Operation of pretreatment, primary, and biological treatment units.

Prerequisite: WATR 230 or consent of instructor.

WATR 240. Advanced Water and Wastewater Math II

3 Credits (2+2P)

Advanced water and wastewater mathematics. Flow measurement. Systems head and pump curves.

Prerequisites: WATR 140.

WATR 250. Municipal Systems Management

4 Credits (4)

Management of water utility systems including laws, finance, records, and safety.

Prerequisites: WATR 120, WATR 130.

WATR 270. Special Topics

1-4 Credits

Specific subjects to be announced in the Schedule of Classes. May be repeated for a maximum of 12 credits.

WATR 275. Certification Review

3 Credits (3)

Review of water and wastewater plant operations and laws in preparation for state certification exams. May be repeated up to 3 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): WATR 120, WATR 130, WATR 140, WATR 160.

WATR 285. High Purity Water Treatment Systems

3 Credits (3)

Principles of high purity water production including microfiltration, ultrafiltration, reverse osmosis, and deionization.

Prerequisite: WATR 220.

WATR 287. Advanced Water Chemistry Analysis 3 Credits (6P)

Sampling techniques, analysis, and evaluation of potable water contaminants using gravimetric, volumetric, spectrophotometric, and other instrumentation methods. May be repeated up to 3 credits.

Prerequisite(s)/Corequisite(s): WATR 285. Restricted to Community Colleges campuses only.

WATR 290. Advanced Wastewater Microbiology and Chemistry 3 Credits (3)

Covers NPDES permits and DMR calculations and reporting; 503 sludge regs, including pathogen and vector attraction reduction and pollutants; wetlands, composting, and wastewater treatment ponds microbiology; activated sludge bulking and foaming microbiology and treatment; and use of selector to remove nutrients and prevent the growth of filamentous bacteria.

Prerequisite: WATR 190, WATR 192.

WATR 292. Advanced Wastewater Analysis

3 Credits (6P)

Covers sampling techniques, analysis, and evaluation of wastewater contaminants using gravimetric, volumetric, spectrophotometric, and other instrumentation methods.

Prerequisite: WATR 190 and WATR 192.

WELD-WELDING TECHNOLOGY (WELD)

WELD 100. Structural Welding I

6 Credits (3+6P)

Development of basic skills in SMAW, OFC, and OFW in accordance with the AWS entry-level welder program.

WELD 101. Fundamentals of Welding

3 Credits (3)

Set-up and adjustment of ARC and oxyacetylene equipment. Welding safety procedures and terminology. Skill development in laying weld beads with various patterns, positions, and processes.

WELD 102. Welding Fundamentals

3 Credits (2+2P)

Survey of welding and cutting processes for nonmajors. Classroom instruction and laboratory work with OFC/OFW, SMAW, GMAW, FCAW, and plasma arc cutting.

WELD 105. Introduction to Welding

3 Credits (3)

Welding practices, procedures, and terminology. Welding safety, equipment types, electrode types in usage, joint design and testing procedures.

WELD 110. Blueprint Reading (Welding)

3 Credits (3)

Interpretation of prints related to welding. Emphasis on AWS standard symbols for welding, brazing, and nondestructive examination.

WELD 115. Structural Welding II

6 Credits (3+6P)

Continuation of WELD 100. Emphasis on AWS entry and advanced level welder skills with SMAW, including all-position welding with mild and stainless steel electrodes. Plasma arc and air-carbon arc cutting, metallurgy, heat treatment, and weld defects.

Prerequisite: WELD 100.

WELD 120. Basic Metallurgy

3 Credits (3)

Properties of ferrous and nonferrous materials. Service conditions and heat treatment of metals related to welding trade.

Prerequisites: WELD 100 or consent of instructor.

WELD 125. Introduction to Pipe Welding

3 Credits (2+2P)

Pipe fit-up and welding techniques for pipe fitting and pipe weld joint using SMAW, GMAW, GTAW, and FCAW, 2G welding of pipe. Restricted to: Community Colleges only.

Prerequisite(s): WELD 100, WELD 130, and WELD 140, or consent of instructor.

WELD 126. Industrial Pipe Welding

3 Credits (3)

Enhancement of WELD 125. Development of more advanced pipe welding

Prerequisite(s): WELD 110, WELD 130 and WELD 140.

Corequisite(s): WELD 125.

WELD 130. Introduction to GMAW MIG)

3 Credits (2+2P)

Development of basic skills with gas metal arc welding (MIG) in accordance with AWS entry-level welder objectives. Wire electrodes, shielding/purge gases, and modes of metal transfer.

WELD 140. Introduction to GTAW TIG)

3 Credits (2+2P)

Development for basic skills with gas tungsten arc welding (TIG) in accordance with AWS entry/advanced welder objectives. Welding mild steel, tungsten electrode preparation, filler wire selection, and equipment set-up.

WELD 150. Pipe Welding II

3 Credits (2+2P)

Continuation of WELD 125; with fillet and groove welded joints in a horizontal fixed and 45-degree fixed positions (5-F, 5-G, 6-F, 6-G).

Prerequisite: WELD 125.

WELD 151. Industrial Pipe Welding II

3 Credits (3)

Enhancement of WELD 150. Development of more advanced pipe welding skills. Emphasis on industry driven test.

Prerequisite(s): WELD 125 and WELD 126.

Corequisite(s): WELD 150.

WELD 160. Introduction to SAW and FCAW

3 Credits (2+2P)

Submerged arc and flux-cored arc welding. Demonstrations and practice with machine travel submerged arc welding (SAW), flux-cored arc welding (FCAW-G, FCAW-S) on mild steel plate and pipe. Restricted to: Community Colleges only.

WELD 170. Welded Fabrication

3 Credits (1+4P)

Development of fabrication skills including basic layout, measuring, and utilization of various welding processes including out-of-position welding. Use of common shop tools.

Prerequisites: WELD 100, WELD 110, WELD 130, and OETS 104 or OETS 118.

WELD 180. GTAW II

3 Credits (2+2P)

Continuation of WELD 140. Development of more advanced GTAW skills. Emphasis on pipe welding with mild steel, stainless steel, and aluminum. **Prerequisite:** WELD 140 or consent of instructor.

WELD 190. Welded Art

3 Credits (1+4P)

Students explore the possibilities of welded art in the form of sculpture, jewelry, furniture and as a framework to support other art media. Offered as an elective for students who wish to create art using welding. May be repeated up to 12 credits. Restricted to Community Colleges campuses only.

Prerequisite(s): WELD 102.

WELD 211. Welder Qualification

6 Credits (3+6P)

Laboratory and classroom instruction on AWS and ASME Welder Performance Qualification Tests. All position plate and pipe techniques and tests for SMAW, GMAW, GTAW, FCAW, and SAW. Nondestructive and destructive examination methods. Basics of welding codes. Restricted to majors.

Prerequisites: OETS 104 or OETS 118; and WELD 100, WELD 110, WELD 120, WELD 130, WELD 140, WELD 160 and WELD 180 or consent of instructor.

WELD 221. Cooperative Experience I

1-6 Credits

Supervised cooperative work program. Student is employed in an approved occupation and supervised and rated by the employer and instructor. Student will meet in a weekly class. Graded S/U. Restricted to majors.

Prerequisites: WELD 100 or WELD 101 and consent of instructor.

WELD 255. Special Problems in Welding Technology

1-6 Credits

Individual studies in areas of welding technology. May be repeated for a maximum of 12 credits.

Prerequisite: consent of instructor.

WELD 295. Special Topics

1-4 Credits

Topics to be announced in the Schedule of Classes. May be repeated for a maximum of 12 credits.

Student Handbook

The NMSU-DACC Student Handbook is divided into the six sections whose titles appear in the menu on the left under 'Student Handbook' Questions concerning the policies and procedures in this handbook should be directed to:

Office of the Vice President for Student Services Doña Ana Community College 2800 Sonoma Ranch Blvd. Las Cruces, NM 88011-1656 (575) 527-7530 Policies in the NMSU-DACC Student Handbook are subject to change.

Student Social Code of Conduct Section 1

Part I: Introduction and Overview

This Student Social Code of Conduct, here after referred to as code, is adopted by the authority outlined in New Mexico State University Policy 3.101. It sets forth the rights and responsibilities of NMSU/DACC students; outlines the standards for social conduct; provides the types of interim measure and sanctions which may be imposed for violation of the code; provides a prompt and fair fact finding hearing, as well as an objective review process if students elect to appeal the outcome of the fact finding hearing.

The code consists of the following Parts:

Part I: Introduction and Overview to the Student Social Code of Conduct

Part II: Jurisdiction

Part III: Standards for Student Social Conduct

Part IV: Interim Measures Pending Fact Finding/Sanction Hearing; Range of Potential Sanctions for Substantiated Misconduct

Part V: Students' Rights and Responsibilities; Student Discipline and Appeal Hearing Processes

Part VI: Definitions

Part II: Jurisdiction

- 1. **On-campus:** The code applies to conduct which takes place on university premises.
- 2. Off-Campus Conduct: The code generally is not applied to conduct which occurs off campus, but the university retains the right to act in cases where there is a sufficient connection between the off campus conduct and the university. Disciplinary action imposed by NMSU/DACC may proceed, and be in addition to, any penalty that might be imposed by an off-campus authority. Examples of when off campus conduct will result in action under the code include but are not limited to the following:
 - a. Conduct at university sponsored events;
 - b. Conduct which reasonably may present a danger or threat to the health or safety of the student or others;
 - c. Conduct which significantly impinges upon the rights, property or achievements of self or others or significantly breaches the peace or causes social disorder,

OR

- d. Conduct detrimental to the educational mission or interests of the university.
- 3. Social Media: As a general rule, personal use of non-NMSU/DACC social media is not governed by this code. Students should be aware, however, that online postings such as blogs, web postings, chats and social networking sites are in the public sphere and are not private unless password protected, and even then may be shared in unpredictable ways and with unintended audiences. In cases where personal and academic or professional boundaries are blurred, students should exercise discretion. Exceptions to the general rule may be made when actions or statements over social media have a sufficient connection to the university. These exceptions apply when:

- a. the use of an electronic medium involves the use of NMSU/DACC resources (e.g. email account, NMSU/DACC electronic media, use of NMSU/DACC work time) inconsistent with the policies and procedures applicable to such use;
- the use of an electronic medium involves a true threat, defined as a threat whereas a reasonable person would interpret as a serious expression of intent to inflict harm upon specific individuals;
- c. the use of an electronic medium posts material considered to be forms of illegal bullying, discriminatory or other severe and pervasive harassment, or stalking, in violation of the code or the law.
- d. the use of an electronic medium is used to defame someone, post unlawful materials, or otherwise causes a material and unreasonable interference with the education, research public service and outreach missions of the university;
- e. the use of the electronic medium provides evidence of a potential violation of the code warranting investigation and potential disciplinary action.
- 4. Court or Administrative Proceedings Outside of the University: If a charged student/student organization wishes to have the hearing postponed because there is pending or possible civil or criminal litigation which the student(s) feels might be prejudice by the findings of the hearing, such postponement may be granted at the discretion of the appropriate administrator, provided that the student/student organization agrees to accept conduct probation or suspension as an interim sanction. Such probation, suspension or ban from campus will be determined and activated by the appropriate administrator and will remain in effect until a hearing is held, either at the request of the student, or upon notice to the student/student organization, at the request of the appropriate administrator, should it be decided that the postponement of the hearing is no longer appropriate.
- 5. Determination of Hearing Officer: Location of the incident shall determine who will serve as the Hearing Officer for cases which may involve the violation of the code, unless there is a challenge to impartiality or as provided in the following section (Students Holding Multiple Roles).
- 6. Students Holding Multiple Roles: Students often serve in various capacities on campus. This code applies in all instances. Depending upon the circumstances, a student may be held to higher or additional standards by other authorities on campus (e.g. Housing, Intercollegiate Athletics), which means that a student may be subject to more than one set of rules and consequences for the same action.
 - a. Community Colleges: Violations of the code occurring on property overseen by a specific Community College within the NMSU system will be heard by Vice President for Student Services. The provisions of this code will be applied at the community colleges.
 - b. On-Campus Housing Students: Violations of the code or campus housing rules occurring within campus housing properties or parking lot assigned to on-campus housing units shall be heard by a designated Hearing Officer within the Department of Housing and Residential Life. The fact finding hearing and appeal processes described herein apply to these cases. If the alleged violation involves conduct for which deferred suspension, suspension, dismissal, or expulsion would be the appropriate sanction, then the hearing process will be managed by the Office of the Dean of Students. The Department of Housing and Residential Life may also request the Office of the Dean of Students to hear a case which may not result in deferred suspension, suspension, dismissal, or expulsion if the appropriate

- administrator determines there is a conflict of interest or other concern if it were to be heard within Housing and Residential Life.
- c. Title IX: Students, faculty, staff who suspect or observe stalking, dating violence, domestic violence, or other conduct involving sexual discrimination, including sexual misconduct or harassment shall be reported immediately to the university's Title IX Coordinator, the Director of the Office of Institutional Equity at: Office: (575) 646-3635; TTY: 575-646-7802; email: equity@nmsu.edu. Professional staff subject to confidential reporting laws (e.g. licensed mental health counselors and physicians) are not subject to this reporting requirement. The Title IX Coordinator ensures all reported incidents are promptly assessed and investigated in accordance with the protocols outlined in Policy 3.25 of the NMSU Policy Manual. If the investigation substantiates a violation of the code, the Office of Institutional Equity will provide a copy of the investigative report to the appropriate administrator. The appropriate administrator will review and initiate the sanction and hearing process, as well take any additional remedial action, as may be appropriate under the circumstances, consistent with the code and with Title IX.
- d. Academic Related Conduct: When a behavior results in the possibility of a violation of the Academic and Social Code of Conduct, the Dean of the college or designee shall work with the appropriate administrator and decide if one or both processes will be used to investigate and determine level of responsibility.
- e. Employment: When a student is also a student employee and violates the code while acting in the capacity of employee, then the appropriate administrator shall coordinate with the Office of Employee and Labor Relations regarding student and/or employee discipline issues.
- f. Athletes: When a student is also a student athlete and violates the code, the student may go through the process used by the Department of Athletics as well as the code. These two process may take place concurrently and one outcome may or may not affect the outcome of the other process.
- g. Cadets in ROTC: When a student is also a cadet in an NMSU ROTC program and violates the code, the student may go through the process used by the appropriate ROTC program, as well as, the code. These two processes may take place concurrently and one outcome may or may not affect the outcome of the other process.
- h. Dual Credit/Early College High School: If a dual credit or early college high school student is involved in an incident where a violation of the code may have occurred, NMSU/DACC has the right to charge the student for the possible violation and follow the process for investigation, hearing, and determination. The student has the same rights given to all students during this process. The NMSU Hearing Officer or DACC Vice President for Student Services shall be determined by the location of the incident.

Part III: Standards for Student Social Conduct, Core Values, and Behavioral Expectations

The university considers the examples described under each of the core values listed below to be inappropriate for members of the university community. The expectations for conduct are consistent with the core values applied to all students. The university encourages students, employees, and community members to report to an appropriate administrator or university police all suspected and observed misconduct. Students found responsible for violations of the Code will

be subject to disciplinary sanction(s). **See Part IV** (p. 439) for interim measures and the range of potential sanctions.

- Integrity: University students exemplify honesty, honor and a respect for the truth in all of their dealings. Behavior that violates this value includes, but is not limited to:
 - Falsification: Knowingly furnishing or possessing false, falsified or forged materials, documents, accounts, records, identification, or financial instruments.
 - Unauthorized Access: Unauthorized access to any university building or unauthorized possession, duplication or use of means of access to any university building or failing to report in a timely manner a lost university identification card or key.
 - Collusion: Action or inaction with another or others to violate the code
 - d. Election Tampering: Tampering with the election of any university recognized student organization.
 - Taking of Property: Intentional and unauthorized taking of university property or the personal property of another, including goods, services and other valuables.
 - f. Stolen Property. Knowingly taking or maintaining possession of stolen property.
- Community: University students build and enhance their community. Behavior that violates this value includes, but is not limited to:
 - Disruptive Behavior. Substantial disruption of university operations including obstruction of teaching, research, administration, other university activities, or authorized nonuniversity activities which occur on campus.
 - b. Rioting: Causing, inciting, or participating in any disturbance that presents a clear and present danger to self or others, causes physical harm to others, or damage or destruction of property.
 - c. Unauthorized Entry: Misuse of access privileges to university premises or unauthorized entry to or use of buildings, including trespassing, propping or unauthorized use of alarmed doors for entry into or exit from university buildings.
 - Trademark: Unauthorized use, including misuse, of university or organizational names and images.
 - e. Damage and Destruction: Intentional, reckless or unauthorized damage to or destruction of university property or the personal property of another.
 - f. ICT and Acceptable Use: Violating the university Acceptable Use and Computing Policy (policy 2.35.1.1.1), found online at: manual.nmsu.edu.
 - g. Gambling: Gambling as prohibited by the laws of the State of New Mexico
 - h. Weapons and Other Explosive Materials/Devices: Possession, use, or distribution of explosives (including fireworks and ammunition), guns (including air, BB, paintball, facsimile weapons, and pellet guns), or other weapons or dangerous objects such as arrows, axes, machetes, nun chucks, throwing stars, or knives with a blade longer than three (3) inches. Any object intended to be used as a weapon.
 - i. Tobacco: Smoking or tobacco use in any area of campus where smoking or tobacco use is prohibited.
 - j. Fire Safety: Violation of local, state, federal or campus fire policies including, but not limited to:
 - Intentionally or recklessly causing a fire which damages university or personal property or which causes injury;

- ii. Failure to evacuate a university controlled building during a fire alarm:
- iii. Improper use of university fire safety equipment; or
- Tampering with or improperly engaging a fire alarm or fire detection/control equipment while on university property.
- k. Ineligible Pledging or Association: Pledging or associating with a student organization without having met eligibility requirements established by the university.
- I. Animal: Animals, with the exception of service and emotional support animals, are not allowed on campus except as may be permitted by university policy; animal owners and handlers shall abide by applicable local laws relating to the care and control of animals. See Assistive, Service, and Companion Animals on University Premises (policy 3.06).
- m. Wheeled Devices: Skateboards, roller blades, roller skates, bicycles and similar wheeled devices are not permitted to be ridden inside university buildings, residence halls or on athletic fields or courts. Additionally, skateboards and other wheeled items may not be ridden on rails, curbs, benches, or any such fixtures that may be damaged by these activities, and individuals may be liable for damage to university property caused by these activities.
- 3. Social Justice: Student recognizes that respecting the dignity of every person is essential for creating and sustaining a flourishing university community. They understand and appreciate how their decisions and actions impact others and are just and equitable in their treatment of all members of the community. They act to discourage and challenge those whose actions may be harmful to or diminish the worth of others. Conduct that violates this value includes, but is not limited to:
 - a. Discrimination: Any act or failure to act that is based upon an individual or group's actual or perceived status related to age, ancestry, color, disability, gender identity, genetic information, national origin, race, religion, serious medical condition, sex, sexual orientation, spousal affiliation, or protected veteran status that is sufficiently sever that it limits or denies the ability to participate in or benefit from the university's educational program or activities.
 - b. Harassment: Any unwelcome conduct based on actual or perceived status including: age, ancestry, color, disability, gender identity, genetic information, national origin, race, religion, serious medical condition, sex, sexual orientation, spousal affiliation, or protected veteran status. Any unwelcome conduct should be reported to campus officials, who will act to remedy and resolve reported incidents on behalf of the victim/complainant and community.
 - i. Hostile Environment: Sanctions can and will be imposed for the creation of a hostile environment when harassment is sufficiently severe, pervasive or persistent and objectively offensive that it unreasonably interferes with, limits, or denies the ability to participate in or benefit from NMSU/DACC's educational or employment program or activities.
 - ii. Bullying: Sanctions can and will be imposed for bullying when harassment is sufficiently severe, pervasive or persistent and objectively abusive that it unreasonably interferes with, limits, or denies the ability to participate in or benefit from NMSU/ DACC's educational or employment program or activities.
 - Retaliatory Discrimination or Harassment: Any intentional, adverse action taken by any responding individual or allied third party, absent legitimate nondiscriminatory purposes, against

- a participant (or supporter of a participant) in a civil rights grievance proceeding or other protected activity.
- d. Unacceptable Bystander Behavior.
 - Complicity with or failure of any student to appropriately address known or obvious violations of the code.
 - Complicity with or failure of any organized group to appropriately address known or obvious violations of the code or law by its members.
- e. Abuse of Conduct Process: Abuse or interference with, or failure to comply in, university processes including conduct and academic integrity hearings including, but not limited to:
 - i. Falsification, distortion, or misrepresentation of information;
 - Failure to provide, destroying or concealing information during an investigation or an alleged policy violation;
 - iii. Attempting to discourage an individual's proper participation in, or use of, the campus conduct system;
 - iv. Harassment (verbal or physical) or intimidation of a member of a campus conduct body prior to, during, or following a campus conduct proceeding;
 - Failure to comply with the sanction(s) imposed by the campus conduct system; or
 - vi. Influencing, or attempting to influence, another person to commit an abuse of the campus conduct system.
- 4. Respect: University students show positive regard for each other and for the community. Behavior that violates this value includes, but is not limited to:
 - a. Harm to Persons: Intentionally or recklessly causing physical harm or endangering the health or safety of any person.
 - b. Threatening Behavior.
 - Threat: Written or verbal conduct that causes a reasonable expectation of injury to the health or safety of any person or damage to any property.
 - ii. Intimidation: Intimidation defined as implied threats or acts that cause a reasonable fear of harm in another.
 - c. Bullying or Cyberbullying: Bullying or cyberbullying are repeated or severe aggressive behaviors that intimidate or intentionally harm or control another person physically or emotionally, and are not protected by freedom of expression.
 - d. Hazing: Defined as an act that endangers the mental or physical health or safety of a student, or that destroys or removes public or private property, for the purpose of initiation, admission into, affiliation with, or as a condition for continued membership in a group or organization. Participation or cooperation by the person(s) being hazed does not excuse the violation. Failing to intervene may also violate this policy.
 - e. Intimate Partner/Relationship Violence: Violence or abuse by a person in an intimate relationship with another.
 - f. Stalking: Stalking is a course of unwelcome conduct directed at a specific person that would cause the person to reasonably fear for their own safety.
 - g. Sexual Misconduct: Includes, but is not limited to, sexual harassment, non-consensual sexual conduct, non-consensual sexual intercourse, or sexual exploitation.
 - Public Exposure: Includes deliberately and publicly exposing one's intimate body parts, public urination, defecation, and public sex acts.

- Responsibility: University students are given and accept a high level
 of responsibility to self, to others and to the community. Behavior
 that violates this value includes, but not limited to:
 - a. Alcohol: Use, possession, misuse or distribution of alcoholic beverages except as expressly permitted by law and university policy.
 - Drugs: Use, possession, sale or distribution of illegal drugs and other controlled substances or drug paraphernalia except as expressly permitted by law and university policy.
 - Prescription Medications: Abuse, misuse, sale, or distribution of prescription or over-the-counter medication.
 - d. Failure to Comply: Failure to comply with the reasonable directives of university officials or law enforcement officers during the performance of their duties or failure to properly identify oneself to those persons when requested to do so.
 - e. Financial Responsibilities: Failure to promptly meet financial responsibilities to the institution, including, but not limited to: knowingly passing a worthless check or money order in payment to the institution or to an official of the institution acting in an official capacity.
 - f. Health and Safety. Creation of health or safety hazards including, but limited to: dangerous pranks, hanging out of or climbing from/ on/in windows, balconies, roofs.
 - g. Other Policies: Violating University, college, departmental, programmatic policies or rules, including all Residence Hall rules and regulations.
 - h. Violations of Law: Evidence of violation of local, state, or federal laws, when substantiated through the university's conduct process.

Part IV: Interim Measures Pending Fact Finding/ Sanction Hearing; Range of Potential Sanctions for Substantiated Misconduct

- 1. Interim Administrative Action Pending Investigation or Disciplinary Hearing
 - a. Interim measures may be imposed on a student or student organization, at the discretion of the Vice President for Student Services, if the student is a community college student. Notice of imposition of an interim measure shall be provided to the student or student organization in writing.
 - b. The student or student organization may appeal the imposition of an interim measure by submitting a written request for a meeting to review the matter to the President of DACC if the decision is made by a Vice President for Student Services. If requested, the review meeting will be conducted within five (5) days of the receipt of the written request. The scope of the review meeting will be limited solely to the issue of the imposition of the interim measures, including requests for special arrangements during the period of interim measures.
 - c. If a student's enrollment status is changed as a result of an interim measure, and the student is subsequently found not responsible for the violation, the university may:
 - Correct any record of the change in enrollment status in the student's permanent records and other reports in a manner compliant with State and Federal laws.
 - ii. Refund to the student, at a minimum, a pro rate of any tuition/fees and other university specific fees and charges as appropriate due to the temporary change in enrollment

status and in a manner consistent with the university policy and procedures.

2. Range of Interim Measures

- a. Cease and Desist: University officials and faculty may, under appropriate circumstances, order a student to stop an activity considered disruptive to the University.
- b. Interim Suspension: The Vice President for Student Services may temporarily suspend a student or student organization when it is determined that a student's/student organization's presence adversely affects the health, safety, or welfare of the university community or a member of the university community.
- c. Restrictions on Activities: The Vice President for Student Services may restrict a student's/student organization's activities when it is determined that the health, safety, or welfare of a student or members of the university community is at risk. Restrictions on activities may include, but are not limited to: registering for or attending class; accessing or contacting certain individuals (no contact order); accessing university property, facilities, resources or equipment; participating in university activities, organizations or student activities.
- d. Restrictions by Other Authorities: Interim measures may also be taken by other authorities based on the specific rules or requirements relating to such other authorities (e.g. academic and co-curricular programs, campus housing and intercollegiate athletics etc.)
- 3. Range of Potential Sanctions for Substantiated Misconduct When an investigation substantiates, by a preponderance of the evidence, that a student/student organization, the student/student organization will be sanctioned appropriately. The sanction is intended to educate the student/student organization and to deter future misconduct. Progressive discipline is appropriate for lesser violations, however, for serious misconduct, progressive discipline is not required; the sanction should be commensurate with the seriousness of the violation. The following will be considered when determining the level of discipline (sanction): prior warnings or discipline for similar misconduct, if any; the risk of potential harm created; actual personal injury or property damage which resulted; damage to the university community, reputation or interests. One or more of the sanctions listed below may be imposed by the appropriate administrator.
 - a. Documented Verbal Warning: This sanction is the lowest level of sanction, designed to "warn" a student that if the behavior is not changed, more serious discipline or sanctions will result.
 - b. Written Warning: This type of sanction is designed for less serious violations of the code, for which progressive warnings are likely to be effective. The student/student organization is issued a written warning notifying the student/student organization that the behavior did not meet university standards.
 - c. Disciplinary Probation: The placement of a student/student organization on disciplinary probation, for a certain term or indefinitely, indicates that the misconduct was a serious violation of university standards. Additional substantiated violations of the Code, whether similar in nature or not, which occurs during a probationary period will result in more serious sanctions. Probationary status also may result in restrictions being placed on a student's/student organization's activities. Examples of such restrictions include, but are not limited to: restriction of privilege to

- i. participate in student activities or in student organizations,
- ii. represent university on athletic teams, or in other leadership positions;
- iii. have access to university housing facilities or other areas on campus;
- iv. have use of university resources and/or equipment; or
- v. have contact with specified person(s).
 A student who has been placed on indefinite disciplinary probation, or whose probation has been indefinitely noted on the transcript, may petition to have the probation lifted or the notation removed from the transcript. This petition will not be accepted if submitted prior to one calendar year from the date the probation began. Students must petition to the Vice President for Student Services to have the removal of probationary status removed. The decision of the administrator is final.
- d. Loss of University Privileges: This sanction involves the temporary or permanent withdrawal of university privileges, including but not limited to: use of university facilities, resources, equipment, attendances at athletic functions, student union, library use, parking privilege, university computer usage, and/or residence hall or other visitation.
- Restitution: This type of sanction requires the student/student organization to pay for all or part of damages (personal injury or property) they caused or contributed to.
- f. Community/University Service: A student/student organization is required to complete a specified number of hours of service at one of the University's campuses, or in furtherance of the University's interests.
- g. Educational Requirements: This sanction may be used for lesser violations or in conjunction with other sanctions. A student/ student organization may be required to complete a specified educational sanction related to the violation committed. Such educational requirements may include, but are not limited to, completion of a seminar, report, alcohol or drug assessment, presentations, and/or counseling.
- h. Change or Revocation of Housing Assignment: This sanction may be used when a violation of the code also constitutes a breach of the license agreement entered into by the student, or as a remedy to address claims of discrimination, harassment, bullying, stalking or other inability to get along with neighbors. The student/student organization may be required to
 - i. relocate to a new university housing assignment;
 - ii. leave university owned housing for a specified period of time; or
 - iii. leave university owned housing permanently.
- i. No Contact Order. A directive informing the student/student organization that they are not permitted to have any contact, direct or indirect, with one or more designated persons or group(s) through any means, including personal contact, email, telephonic, electronic or third parties. No contact order directives may be issued as a sanction or may also be issued by the appropriate administrator under circumstances which do not involve student/student organization discipline.
- j. Deferred Suspension: A status given to a student for a defined period of time, not to exceed one year, in which the student may stay enrolled in classes but may not formally represent NMSU/ DACC in any manner such as on athletic teams, intramural teams, student leadership roles, or participate in student organizations.

- k. Suspension: A student who is suspended shall not be enrolled and is required to leave the University for a specified period of time. The specified period of time cannot be longer than one calendar year. The student must comply with all sanctions and complete all requirements prior to re-admission. During the suspension period the student may not visit or come onto any NMSU premises without specified written permission of the Vice President for Student Services. Credits taken at another institution of higher education may not be accepted as transfer credits when or if the student returns to NMSU/DACC.
 - A student organization who is placed on suspension shall not be recognized as a chartered student organization and therefore, may not receive the recognition, rights and privileges of a chartered student organization for a specified period of time. The specified period of time cannot be longer than one calendar year. The student organization must comply with all sanctions and complete all requirements prior to re-chartering.
- I. Dismissal: A student who is dismissed is required to leave the university for an indefinite period of time. Students may not reenroll nor reenter university premises for a minimum of one calendar year, and then, only by petitioning and obtaining consent from the Vice President for Student Services. A permanent notation of dismissal is placed on the student's transcript. During the dismissal period, the student may not visit or come onto NMSU/DACC premises without specific written permission from the Vice President for Student Services. Credits taken at another institution of higher education may not be accepted as transfer credits when or if the student returns to NMSU/DACC.
 - A student organization placed on dismissal shall not be recognized as a chartered student organization and therefore, may not receive the recognition, rights and privileges of a chartered student organization for an unspecified period of time. Student organizations may not re-charter for a minimum of one calendar year, and only then, by petitioning and obtaining the consent of the Vice President for Student Services. The student organization must comply with all sanctions and complete all requirements prior to re-chartering.
- m. Expulsion: Expulsion is used as a sanction only in the most serious cases of misconduct. A student who is expelled is permanently deprived of the privilege to continue at the university in any capacity. The student may not visit or come onto any NMSU/DACC premises or NMSU/DACC sponsored events without specific written permission of Vice President for Student Services.
 - A student organization who is given the sanction of expulsion is permanently deprived of the privileges to continue as a chartered student organization at NMSU/DACC. Therefore, the student organization loses all recognition, rights and privileges given to chartered student organizations.
- n. Denial of Further Registration and/or Credits: Denial of the privilege to reenroll or invalidation of credits earned is a sanction available when a student has been found to have made false, fraudulent or materially incomplete statements on official university records. Examples of such records include but are not limited to: application for admission, residence affidavit, and application for graduation.
- Withholding Degrees: Withholding issuance of a degree, diploma, certificate or official transcript pending compliance with university policies or pending completion of the processes set

forth in this code, including but not limited to completion of all elements of a sanction.

Part V: Students' Rights and Responsibilities; Student Discipline and Appeal Hearing Processes

1. Student Rights

- To be accompanied by an advocate at meetings or hearings related to charges.
- To be notified of alleged facts and evidence supporting the charge(s) at least five (5) days prior to any scheduled disciplinary hearing.
- c. To examine evidence the university has concerning the incident.
- d. To receive notice of any witnesses the university plans to call to testify at the hearing.
- e. To participate in a fact finding hearing with an impartial Vice President for Student Services: A student party to the proceedings may challenge the impartiality of the Vice President for Student Services. The challenged hearing or appeal officer may elect voluntary recusal. If the challenged official does not voluntarily recuse, the President of DACC shall determine the validity of the challenge and if applicable, appoint an alternate hearing officer.
- f. To call witnesses to present relevant testimony on behalf of the student, as determined by the Vice President for Student Services.
- g. To question witnesses who are called to present testimony in support of the charge(s).
- h. To choose not to answer questions during the investigative process and to not testify at the disciplinary hearing, without the student's silence being treated as evidence of being responsible for violating the Code.
- The right to appeal the decision of the disciplinary Hearing Officer to a higher authority.

2. Student Responsibilities:

- a. Charged students, as well as students who are witnesses, shall be honest and cooperative with university officials during investigative and hearing/appeal processes. This responsibility is subject to a student's constitutional right to remain silent in order to not implicate oneself in a violation or crime. If a student exercises the right to not testify or chooses to not participate at all in the proceedings, the Hearing Officer may choose to proceed based upon the evidence gathered from other sources.
- b. A charged student electing to contest the charges shall, at least three (3) days in advance of the hearing, provide the Vice President for Student Services with a list indicating the witnesses who the student intends to call upon to testify at the hearing, and shall also submit copies of the documentation or identify other evidence, if any, in support of the student's position relative to the charge.
- c. If the student is found ultimately responsible for violating the code, and a sanction is imposed, the student shall complete all sanctions(s) required in the final decision and report such completion to the Vice President for Student Services.
- 3. Students' Rights When Title IX is Implicated: Victims/complainants, as defined in this policy, especially with regard to alleged violations of Title IX (sexual discrimination, including sexual misconduct and harassment, sexual assault/violence, domestic violence, dating violence, stalking and other crimes of violence), have the right to special consideration and assistance during the investigation,

hearing and resolution phases of the student disciplinary process. In order to ensure fairness to all parties in the proceedings, the student charged is entitled to request the same consideration:

- a. Questioning during Investigation and Hearing: A victim/ complainant or student charged may provide a list of questions and request that they be asked during the investigative or hearing stages of the student discipline processes. In order to be considered, the questions must be submitted in writing to the Vice President for Student Services, as appropriate, and at least three (3) days in advance of any scheduled disciplinary hearing.
- b. Hearing Modifications: A victim/complainant or student charged may request reasonable alternate arrangements relating to participation in the disciplinary hearing, such as submission of questions in written form rather than verbal direct questioning, or to be allowed to provide information from a separate location. As long as the integrity of the hearing is not compromised, and the parties and the hearing official are able to see and communicate with each witness (including the victim/complainant and the accused), reasonable requests will be granted.
- c. Past Behavior. A victim/complainant or student charged has a right to have past unrelated behavior excluded from the disciplinary hearing. The issue of whether past behavior is related or relevant will be determined by the Vice President for Student Services.
- d. Victim Impact Statement: If the charged student(s) is found responsible, the victim/complainant has a right to submit a victim impact statement to the Vice President for Student Services for consideration at the sanctioning phase only. The statement may include a description of how the victim was impacted by the conduct violation and may include recommendations for sanctions, penalties, or restitution. However, the Vice President for Student Services is not bound by these recommendations.
- e. Notification: In cases involving arson, assault, burglary, criminal homicide, destruction/damage/vandalism of property, dating violence, domestic violence, kidnapping, robbery, forcible sex offenses, non-forcible sex offense, stalking or any other crime or attempted crime of violence, the victim/complainant has a right to be notified by the Vice President for Student Services of the final results of the investigation and disciplinary proceedings conducted with respect to the alleged offense. The notification of final results will include
 - i. the name of the charged student(s);
 - ii. the violation with which the student was charged;
 - iii. whether the student was found "responsible" or "not responsible"; and
 - iv. any sanction(s) imposed, to the extent that the sanction may affect the victim/complainant.
- f. Appeal: As is the case for all violations of the code, in incidents involving violations of Title IX (sexual discrimination, including sexual misconduct and harassment, sexual assault/violence, domestic violence, dating violence, stalking and other crimes of violence); the victim/complainant and the charged student each have the right to appeal the outcome of the fact finding/sanction hearing, as outlined below in this Part V, Section 5.

4. Investigation and Educational Conference

a. Determination of Charges

 Alleged violations of the code may be reported to the appropriate administrator by any member of the community including but not limited to: (a.) university departments, (b.)

- university police, (c.) faculty, staff, or students or (d.) third parties.
- ii. The appropriate administrator, or designee, will review the information to determine if a student/student organization will be charged with violating the code.
- iii. The appropriate administrator, or designee, may not charge a student/student organization with a violation of the Code more than one year after the date the conduct occurred or was discovered, whichever is later.

b. Notification of Charges and Date/Time of Educational Conference

- i. The appropriate administrator or designee will notify the student/student organization in writing of the allegations and charge(s).
- ii. The notice will include the date and time of an Educational Conference. The conference will be scheduled no earlier than five (5) days and no later than ten (10) days from the date of the notice unless requested by the student/student organization representative(s). If the time or date of the conference is not feasible to the student/student organization representative(s), the student/student organization representative(s) must notify the appropriate office based on the information provided in the notification within two (2) business days of the scheduled Educational Conference to reschedule.
- iii. If at any time during the course of the judicial process, the appropriate administrator determines that either charges are not warranted or that insufficient evidence exist to continue, then the charges may be withdrawn, and the student/student organization representative(s) will be so notified in writing.

c. Educational Conference

- Educational Conferences are facilitated by Vice President for Student Services. Individual Educational Conference for cases will be delegated by the appropriate administrator.
- ii. The purpose of the Educational Conference is to review with the student/student organization representative(s) the allegations and charges, the code, the judicial process, the hearing forum, possible sanctions, and to answer questions the student/student organization representative(s) may have.
- iii. During the conference the charged student/student organization:
 - Will be presented with a list of rights and responsibilities as a charged student/student organization. The charged student/student organization will be requested to sign the document indicating that the rights have been explained and that the student/student organization's representative understands them.
 - 2. Have the opportunity to accept or deny responsibility for the alleged violations. An acceptance of responsibility for the violations will constitute a waiver of the student/student organization's right to a hearing and appeal.
- iv. If the student/student organization's representative fails to attend the Educational Conference without notice of reasonable cause, the case may be forwarded to the next step in the process.

d. Hearing

- A student has the right to a fact finding hearing before the Vice President for Student Services.
- The purpose of the hearing is for the university to present the evidence related to the alleged violation, provide a time

- to allow the accused student/student organization to give a statement or present evidence, and to hear from witnesses.
- iii. Absent a time extension, a hearing shall be scheduled no less than five (5) days from notice and no more than ten (10) days from the Educational Conference. Extensions may be granted to a student, (requests will be considered by the Vice President for Student Services) provided all parties are notified about the request for time extension and the reason for the need for an extension.

5. Fact Finding Hearing and Determination of Sanctions, if Warranted

- a. Hold on Student's Record: The University may place a hold on the records or registration of any student who fails to respond to a university disciplinary notice or fulfill any sanctions previously issued by the university. All pending disciplinary matters must be resolved prior to a student's graduation, transfer from or continued education at the university.
- b. Standard of Proof: The duty to prove a disciplinary case rests with the university and the standard of proof shall be preponderance of the evidence. "Preponderance of the evidence" means that the information presented supports the findings that it was more likely than not that the violation occurred.
- c. Advocate: A charged student/student organization is entitled to have any one (1) person at the hearing to serve in the capacity as the Advocate. Student/student organization may consult with their advocate during the hearing process. However, this consultation must take place in a manner that does not disrupt the proceedings. The advocate shall not speak on behalf of the student, question witnesses, present information or argue before the panel. The advocate shall not serve as a witness. The student must notify the appropriate administrator no later than three (3) days prior to the hearing if the student will have an advocate present during the hearing
- d. Confidentiality: All hearings shall be closed and confidential.
- e. Accommodations for Students with Disabilities: Any student with a disability may request reasonable accommodations during the disciplinary process. This request must be made to the appropriate office which handles accommodations for students with disabilities at least three (3) days in advance of the hearing. If necessary, the Vice President for Student Services may postpone the hearing to provide reasonable accommodations.
- f. Safety Procedures: The Vice President for Student Services may accommodate concerns for the safety of the individuals involved by providing separate facilities or other alternatives.
- g. Pre-hearing Information Notice: The University will make available pre-hearing information including a copy of the hearing procedures and copies of records that will be presented by the university at the hearing. The pre-hearing information will be available at least three (3) days in advance of the hearing.
- h. Failure to Appear. If a charged student fails to appear, without giving notice of extenuating circumstances, the hearing may proceed in the student's absence.

i. Role of the Vice President for Student Services:

- Accept information for consideration as deemed to be relevant. Repetitive testimony offered for the same purpose is an example of evidence the Vice President for Student Services might deem to not be necessary.
- Make procedural decisions relating to the hearing. Examples include requests for time extensions, assertions of conflict of interest affecting impartiality of hearing officer.

- Make procedural modifications in the interest of fairness or safety.
- Take action deemed necessary to maintain order in the hearing process.
- Right Not to Testify: No student will be compelled to make selfincriminating statements.
- k. Information: The Vice President for Student Services and the charged student/student organization will be given an opportunity to provide information. This may include, but is not limited to, pertinent records, documents, written or oral statements. The student/student organization will also be given an opportunity to inspect records held by the appropriate office.
- I. Witnesses: The Vice President for Student Services and the charged student/student organization may call witnesses. In order to preserve the educational atmosphere of the hearing and to avoid creation of an adversarial environment, all questions for witnesses will be directed through the Vice President for Student Services. If a witness cannot appear, their written or recorded statement may be considered. Witnesses will be required to wait outside until their point of participation and will be asked to leave the hearing after being questioned.
- m. Multiple Students Charged: In cases involving multiple students charged from the same incident, information obtained in one hearing may be used at another hearing subject to FERPA, HIPAA and other individual privacy considerations, and provided that each charged student involved has the opportunity to review and respond to the information at their hearing.
- n. Effective Date of Sanctions: When the Vice President for Student Services decision affects a student's academic status, the change will be effective immediately, and may only be changed based on the terms contained in the Vice President for Student Services decision (e.g., a one year suspension) or based on the terms of a decision on appeal.
- o. Decisions of "responsible" or "not responsible" on the charge(s): The Vice President for Student Services' decision letter shall be based on the information presented at the hearing. The Vice President for Student Services shall determine whether or not the student is responsible for violating the code as charged.
- p. Record: There shall be a single record of all student/student organization conduct hearing and shall be maintained in the Vice President for Student Services. This record is the official record and is the property of the university. For hearings before the Vice President for Student Services, the Vice President for Student Services' notes will become part of the record. The student/ student organization may request a copy in writing which will be provided.
- q. Notice of Hearing Officer's Decision: The Vice President for Student Services shall issue a written decision letter to the student/student organization within five (5) days following the conclusion of the hearing. This time may be extended, provided the student/student organization shall be notified of any such extensions. The decision letter shall explain the basis for the Vice President for Student Services' finding(s) on each charge and sanction for each charge if found responsible for the charge.
- r. Notice of Right to Appeal/Final Review: The decision letter shall also inform the student/student organization of their right to appeal to the President of DACC, in writing, within five (5) days from the date of receipt of the Vice President for Student Services' decision letter
- 6. Appeal from Decision of Vice President for Student Services

- a. The President of DACC will review the notice of intent to appeal and determine:
 - i. Whether the appeal was submitted timely; if not submitted timely, the President of DACC may decide to accept the appeal, if the appealing student requests a waiver of the time limit and provides the reason for the late submission which indicates an extenuating circumstance outside the student's control prevented a timely appeal; and
 - ii. Whether or not the notice of appeal states a permissible ground for appeal. If grounds for appeal have not been identified in the written notice of appeal, the appeal shall not be considered further, and the decision of the Vice President for Student Services will be upheld.
 - iii. Grounds for appeals are:
 - 1. procedural or prejudicial error was committed, or
 - evidence not available at the time of the hearing is now available.
- b. If proper grounds for appeal have been identified, and the appeal has been deemed timely, the President of DACC will proceed to review the matter.
- Each party may submit a statement in writing explaining why they think the determination of the Hearing Officer should be upheld, reversed, or modified.
 - The statement from the student/student organization must be included with the request for appeal.
 - ii. The statement from the Vice President for Student Services will be submitted to the President of DACC, along with the hearing record, at the time the request for appeal is received. Absent a time extension, the Vice President for Student Services must submit the statement and the hearing record within two (2) days of receipt of appeal. The President of DACC may grant a time extension, upon notice to all parties.
- d. The President of DACC will review the evidence presented at the hearing, any relevant policies or law, the decision of the Vice President for Student Services and the submittals from the parties in order to issue a decision of the appeal in writing.
- e. The student/student organization will be notified of the decision by the President of DACC within five (5) days from receipt of the Request for Appeal, absent notification to all parties that additional time is needed in which to review. Delivery of the decision may be accomplished electronically to the student's official NMSU email address via the conduct database used by the university.
- f. The decision by the President of DACC will be final.

7. Records

- a. Records of all disciplinary actions imposed within the DACC system shall be forwarded to the Vice President for Student Services to maintain as the official student conduct record.
- b. Students found "not responsible" or cases in which charges are dropped are considered not to have a judicial record. However, the records will be maintained by the university in accordance with applicable State record retention laws or university policy whichever is longer.

8. Transcript Notations

a. A notation will be placed on the student's transcript during any period of permanent probation, suspension, dismissal or expulsion. In the case of permanent probation, suspension, or dismissal the student, after a period of one year or term of sanction whichever is longer, may request to have the notation removed from the transcript by submitting a letter to the Vice

- President for Student Services with the reason the notation should be removed. The Vice President for Student Services will make the determination if the notation should be removed. The Vice President for Student Services decision is final.
- b. If a student is expelled, a permanent notation will be placed on the student's transcript.

Part VI: Definitions

- Advocate: The advocate is an individual, of the student's choosing, who serves a supporting role to either the victim/complainant or to the charged student during the fact finding hearing or appeal processes. The advocate shall not actively advocate on behalf of the student, including the questioning of witnesses or the direct presentation of information to the hearing or appeal officer.
- Appeal: The hearing review process by which a student may seek a final review of the decision made by the disciplinary Vice President for Student Services.
- President of DACC: is designated, by position, to review and make a decision on appeals at DACC.
- 4. Appropriate Administrator. One of several key administrators involved in the investigation of alleged student social misconduct and corresponding administrative action, and to whose office suspected or observed student social misconduct should be reported:
 - a. Vice President for Student Services For misconduct alleged to have occurred at a community college or at an event sponsored by a community college or involving a community college student off campus but having an impact on campus.
 - b. Office of Institutional Equity Director/Title IX Coordinator For misconduct on university premises or at any university sponsored event involving discrimination on the basis of age, ancestry, color, disability, gender identity, genetic information, national origin, race, religion, serious medical condition, sex, sexual orientation, spousal affiliation, and protected veteran status, the Office of Institutional Equity Director/Title IX Coordinator will work with the Office of the Dean of Students or appropriate Community College Vice President for Student Services/Success.
- 5. Charged Student: Any student accused of violating the code, which incorporates applicable university policies and procedures. A breach of academic integrity is a violation of university policy and therefore, this code, and is subject to distinct investigative, sanction and disciplinary hearing and appeal process applies.
- Complainant: Also referred to as a "reporter", is any person who reports suspected or observed misconduct by a student; a complaint or report need not be in writing and may be submitted anonymously.
- 7. Continuing Relationship: A continuing relationship is one in which there remains a relationship between student and the university. For example, a student who is not enrolled during the summer months, but is expected to return in the fall is deemed to have a "continuing relationship" with the university.
- Day: When used in this policy, "day" refers to an NMSU/DACC official business day, Monday through Friday, and excludes days which are official NMSU/DACC holidays and unplanned closures of the university.
- 9. Educational Conference: The educational conference is a step in the student conduct process which explains to the charged student the nature of the charges, the evidence in support of those charges, and options for possible resolution, including an overview of the disciplinary hearing and appeal processes.

- Enrolled Student: An individual who is registered for class regardless of when the class begins.
- Faculty Member: Any person hired by NMSU/DACC to conduct classroom or teaching activities or who is otherwise considered by NMSU/DACC to be a member of its faculty.
- 12. Good Standing: A student in good standing is one who is not on conduct- related probation, deferred suspension, suspension, dismissal, or expulsion and has completed all misconduct related sanctions
- 13. Hearing: A step in the student conduct process where the university presents the facts in support of the charge(s) against the student and the proposed sanction, and the student is allowed to provide the facts in support of the student's position to the Vice President for Student Services
- 14. Hearing Officer: A university official authorized by the President of DACC to conduct hearings in the matters of alleged violations of the code.
- 15. **In Writing:** Any form of written communication such as a hard copy letter or an email from the student's official NMSU email account.
- 16. Mitigating or Aggravating Circumstances: Circumstances which may be considered, at the discretion of the Vice President for Student Services when deciding the level of responsibility or type of sanction to be imposed. These circumstances include the student's motive for engaging in the alleged misconduct; disciplinary history; and effect of the behavior on safety and security of the university community.
- 17. Social Conduct: Any conduct that is not addressed by the academic code of conduct and subject to those distinct policies and investigative/disciplinary procedures.
- 18. Student: A student includes all persons enrolled at NMSU/DACC and persons who are not officially enrolled for a particular term but who have continuing academic relationships with the university. This includes the following:
 - a. Individuals enrolled in one or more credit hours;
 - b. Individuals who are degree seeking or non-degree seeking;
 - c. Individual who is in an academic related certificate program;
 - d. Individual who is registered for non-credit courses;
 - e. Individuals seeking dual credit;
 - f. Individuals attending Early College High School;
 - g. Individuals participating in credit bearing internships;
 - Individuals participating in national student exchange, study abroad, or international related programs connected to NMSU/ DACC; and
 - Individuals able to access student services such as, but not limited to, student fee funded activities, counseling, social work services, student diversity and outreach, career services, and student success center.
- Student Organization: Any group of students who are recognized by NMSU/DACC as a chartered student organization.
- 20. **University Community:** Includes any person who is a student, faculty member, staff member, or any other person employed by NMSU/
- University Official: Includes any person employed by NMSU/DACC performing assigned administrative or professional responsibilities.
- University Premises: University premises means all lands, facilities and other property owned, operated or controlled by the Board or Regents of NMSU.

- 23. **University Sponsored Activities:** University sponsored activities are those events and activities involving students, student organizations, or university departments, faculty members, or employees that are:
 - Expressly authorized, aided, conducted or supervised by the university;
 - b. Funded in whole or in part by the university;
 - Initiated by an officially chartered student organization and conducted or promoted in the name of that student organization or the university; or
 - d. Take place on university premises.
- 24. **Victim, also referred to as a "Complainant"**: A person alleged to have been harmed by a student in violation of the Code.

Academic Code of Conduct Student Academic Code of Conduct Section 2

The Student Academic Code of Conduct (SACC), applicable to both undergraduate and graduate students, provides procedures for the review and resolution of alleged or suspected academic misconduct within a reasonably prompt time frame. The full SACC is found in the university's published Administrative Rules and Procedures (ARP), specifically ARP 5.10 and ARP 5.11.

While it is important to refer to the detailed governing rules in the ARP, the process is summarized as follows: An institution-wide Academic Conduct Officer is responsible for processing each case of alleged academic misconduct. The accused student is provided notice of the allegation and has the right to participate during the fact finding process. The student may contest the investigative findings or sanction before a neutral third party hearing panel member. Either party to the matter has the right to a final appeal of the findings or a Level II sanction to the Office of the Provost.

The SACC distinguishes between Level I Sanctions and Level II sanctions, depending upon the severity of the offense and other factors. The Level 1 sanction includes a formal warning. Offenses by graduate students and repeat offenses, even if less serious are subject to a Level II Sanction. Level II sanctions include a notation of academic misconduct on the student's academic transcript.

The full policy, examples of academic misconduct, report form and a flowchart of the procedures for resolving alleged student academic misconduct is available at:

Policies

- ARP 5-10
- ARP 5-11

Examples of Academic Misconduct and Report Form

- ARP Appendix 5.10-A (Examples)
- ARP Appendix 5.11-B (Form)

Flowchart of Procedures

· ARP Appendix 5.11-A

Grievance Procedures

Section 3

Student Academic Grievance Policy

Procedure for Initiating Grievance Complaints: This procedure has been established to provide a method to resolve undergraduate student grievances at the lowest administrative level in a fair and expeditious manner. For the purpose of this procedure, grievances are limited to alleged violations of university policy or procedures by NMSU/DACC or its employees, disputes with faculty and/or alleged unfair treatment. Usually this method is used to appeal a grade the student feels was not justified. Under no condition should these policies be used when the student has allegedly violated the University Code of Conduct or a contractual agreement, and at no hearing should either party have a lawyer. Any student who believes that he/she has been unjustly treated within the academic process may proceed as far as necessary in the steps detailed below. Should the alleged grievance not involve a faculty member or course, the student is to appeal directly to the department chair/program director or division dean in whose area the alleged grievance occurred.

- 1. Appeal to the faculty member. The student is to submit a written appeal to the faculty member within 30 days after the start of the grading period following the grading period in which the alleged grievance occurred. If the alleged grievance occurs during a summer grading period, the student is to submit an appeal no later than 30 days into the fall grading period following the summer grading period in which the alleged grievance occurred. The faculty member and the student are to discuss the problem. The faculty member will submit a written report outlining his or her decision to the student and division dean within ten working days of receipt of the student's written appeal.
- 2. Appeal to the department chair or program director. If a decision satisfactory to the student cannot be reached, the student may submit a written appeal to the department chair/program director in which the course in question was taught. This is to be done within ten days of the receipt of the faculty member's written decision. The faculty member, the department chair/program director, and the student are to meet to discuss the problem. The department chair/program director will send a written response outlining his or her decision to the student and faculty member within ten days of this meeting.
- 3. Appeals to the division dean: If a satisfactory decision cannot be reached among the department chair/program director, the faculty member, and the student, the student or the faculty member may submit a written statement of appeal to the division dean. This is to be done within ten working days after the receipt of the written decision by the department chair/program director. The division dean may request a written recommendation from the College Academic Appeals Board. Should this be the case, the College Academic Appeals Board will conduct a hearing with the student and faculty member (not necessarily at the same time) to review the merits of the appeal. They may also ask for supporting evidence for or against the decision of the department chair/program director within five working days following the conclusion of their review process. The division dean may meet with the student, faculty member, and department chair/program director to discuss the appeal (not necessarily at the same time). The division dean will submit a written response outlining his or her decision to the student, faculty member, department chair/ program director, and Vice-President for Academic Affairs within ten days of the last meeting.

- 4. Appeals to the Vice-President for Academic Affairs: The Vice-President for Academic Affairs may, at his or her discretion, review the appeal upon the written request of the student or faculty member and render a final decision. An appeal to the Vice-President for Academic Affairs is the last step in the appeals process and the Vice-President for Academic Affairs decision cannot be appealed further. Should the Vice-President for Academic Affairs not choose to review the appeal, the decision of the division dean is final.
- 5. Exceptions to the time involved: The division dean may waive the normal time frame for appeals for compelling reasons. Regardless of circumstances, academic appeals must be initiated with the course instructor within two years of the conclusion of the grading period in which the course was taken.
- Enrollment: A student need not be enrolled at NMSU/DACC to initiate an appeal.

College Academic Appeals Board: The College Academic Appeals Board will be appointed by the Vice President for Academic Affairs to hear student appeals. The appeals board will consist of three faculty members and two students.

Maintenance of records: Instructors and/or departments shall keep records used to compute individual grades for two years after the completion of a course. If a grade has been appealed, these records shall be kept for at least two years after completion of the appeal. Academic divisions or Departments may require that records be kept for longer periods.

Student Non-Academic Grievance Policy

Any student, who believes that he/she has been treated unjustly in a non-academic area, not involving a contractual agreement, can file a grievance as long as the Code of Conduct has not been violated. The purpose of this policy is to allow the parties to resolve grievances at the lowest administrative level in a fair and expeditious manner without the involvement of lawyers. A grievance must be filed no later than thirty (30) days following the time the alleged problem occurred. Failure of NMSU/DACC personnel to respond within ten (10) days, at any level in the procedure, will allow the student to proceed to the next step. The channel of appeal for non-academic grievances shall be:

- 1. The aggrieved student must first confer with the staff member involved in an attempt to resolve the problem.
- Unresolved grievances shall be filed in writing by the student with the appropriate supervisor. The supervisor will conduct an inquiry and attempt to resolve the matter impartially and as quickly as possible. This step must be concluded within ten (10) days of the date the grievance was received.
- 3. If the grievance is not resolved at Step 2, the student may forward a copy of the grievance and all relevant correspondence to the appropriate campus officer. The campus officer (or his/her designee) will conduct an investigation and attempt to resolve the issue. This process shall be concluded within ten (10) days of the date the grievance was received.
- 4. If the issue is not resolved in Step 3, the student may appeal to the President of DACC. If warranted, the President will appoint a hearing panel consisting of a student, a faculty member, and a staff person from departments or colleges not involved in the grievance. If a hearing panel is appointed, the parties involved in the grievance will be allowed to submit written documentation concerning the problem, may be present at all hearing sessions, and will be given the opportunity to provide additional oral information on their behalf.

Upon completion of the hearing(s), the panel will forward a written recommendation to the President or his/her designee. This document should include findings of fact and the basis for the recommendation. The decision of the President or his/her designee is final.

Additional Policies and Procedures

Section 4

Additional Policies and Procedures

Alcohol Policy

[Amendment Adopted by Administrative Council 10.11.05; Ratified by Board of Regents 09.08.06] [Amendment Adopted by Administrative Council 07.13.10; Approved by the Board of Regents 07.20.10]

Statement of Purpose

The Board of Regents of New Mexico State University recognizes that diversity of opinion and freedom of choice are concepts upon which higher education has been established. Inherent within these two basic concepts are the exercise of individual responsibility and making informed decisions on matters related to personal behavior. These are concepts basic to all American freedoms.

Within the university setting, faculty, staff and students must demonstrate a mutual respect and commitment to the institution's educational mission while at the same time fostering diversity of opinion, freedom of choice, and responsibility. In this regard, the university respects the right of those of legal age to consume alcohol if they so choose, providing they do so in accordance with this policy and all applicable laws.

This Alcohol Policy shall apply to every function or event, including but not limited to receptions, banquets, dinners, picnics, or any outdoor event, social event, and campus-wide activity sponsored by organizations or individuals associated with New Mexico State University. Off-campus events conducted by university approved organizations are bound by this policy.

NMSU/DACC recognizes it cannot protect its staff and students from making decisions that could potentially cause harm to themselves or others. NMSU/DACC disclaims any intention to assume duties to protect its staff and students from their own abuse of drugs or alcohol or to protect third party persons from conduct of the staff or students.

Scope of Policy

This Alcohol Policy shall apply to all NMSU campuses (Las Cruces main and community colleges) that have applied for and received a waiver from their respective county jurisdictions.

Permissible Use of Alcohol

Where permitted under the policy, the use of alcohol shall be considered a privilege and may be allowed only if consistent with local, state and federal laws and university policy, and only when it does not interfere with the academic atmosphere of the university.

- 1. Students of legal age are permitted to use alcohol only in a manner consistent with this policy and the Student Code of Conduct.
- Students who reside on campus and are 21 years of age or older may possess and consume alcohol as permitted by law and in areas designated by the director of Housing and Residential Life. Refer to the housing policy for those areas designated as "alcohol free".
- Selling, either directly or indirectly, of alcoholic beverages on campus is prohibited, except in those university facilities possessing a state

alcohol license granted under the authority of the Board of Regents, or where pre-approved by the president or designee by event type. The president or designee has authorization, at their discretion, to grant permission for the serving or sale of alcohol at any other oncampus events. All venues approved for the routine sale of alcoholic beverages must have in place an approved policy for the sale and service of alcoholic beverages.

- Events occurring on campus involving alcohol must obtain the proper approval/permit. The following shall apply:
- Any event involving alcohol must be registered and approved by the university in order to obtain a proper permit.
- Student groups, campus organizations and Greek affiliates who wish
 to host events involving alcohol must have proper policies in place,
 consistent with university policies and local, state and federal laws,
 before they will be issued a permit for their event.
- Student fees may not be used directly to purchase alcohol. However, in certain cases, student fees may be used to fund events where alcohol may be served, provided the appropriate permits are obtained and applicable policies are adhered to.
- · Permits will be issued by the president or designee.
- State law requires that anyone serving alcohol must complete a class and receive a server's permit.
- If the consumption of alcohol is a normal part of an academic class, written approval for use must be obtained from the Office of the Executive Vice President and Provost and the Alcohol Review Committee.

Unacceptable Use of Alcohol

NMSU/DACC discourages the use of alcohol that is inconsistent with local, state and federal laws and university policy. NMSU/DACC recognizes that the illegal use of alcohol interferes with the academic environment of this institution and the personal growth of its students.

- NMSU/DACC explicitly prohibits the unlawful use, possession, sale, or distribution of alcohol or controlled substances by all students and employees. Any violation of applicable local, state, and/or federal law is considered to be a violation of this institution's policies.
- 2. Staff and/or students will be disciplined if their use of alcohol threatens to create disorder, public disturbances, danger to themselves or others, or property damage.
- Students who have not yet reached legal age are prohibited from purchasing, using, and/or possessing alcohol.
- 4. Except as outlined by this policy, consumption or possession of alcohol intended for consumption is prohibited on the university campus. Possession of alcohol intended for consumption is permitted for the sole purpose of prompt delivery to a designated, approved location.
- Open containers of alcohol are prohibited outside of designated areas.
- Kegs, party balls or common containers are not permitted, unless in conjunction with an event approved by the president or designee.

Alcohol-Related Misconduct

- Possession of false identification. Students found in possession of or attempting to use false identification in order to procure alcohol will be subject to the fullest force and effect of the consequences outlined in this policy and/or the Student Code of Conduct.
- Alcohol as an aggravating factor to other violations. If alcohol is found to be an aggravating factor in other violations of the Student

- Code of Conduct and/or local, state and federal laws, the student may be subject to more severe punitive sanctioning.
- Off-campus violations of Student Code of Conduct. The university reserves the right to impose sanctions upon students and student organizations that violate this policy and/or the Student Code of Conduct, even if such actions occurs off-campus.

Consequences for Violations

- Students found to be in violation of any of these policies through Student Judicial Services will be subject to disciplinary action ranging from Disciplinary Probation in conjunction with educational sanctioning through Expulsion from the university.
- Students in violation may also be subject to the disciplinary procedures of Housing and Residential Life, if applicable.
- 3. Staff or students found to be in violation will also be subject to all local, state and federal laws and nothing in this policy shall be construed to protect staff or students from such actions as local, state and/or federal law enforcement deem appropriate. Similarly, if local, state and/or federal law enforcement entities decide not to pursue action against violators, the university reserves the right to process violations through the Student Judicial Services and/or Housing and Residential Life, if applicable.
- 4. Staff or students who have not been found to be in violation of any of the policies herein who wish to self-identify and seek confidential help through the Employee Assistance Program, Counseling Center and/or the Wellness, Alcohol and Violence Education Program, will not jeopardize their employment or academic status. This benefit will continue as long as the staff member or student refrains from further alcohol misuse and/or abuse.

Children in the Academic Workplace

Students, staff, faculty, and administrators can expect to attend and teach class, or complete work or research in laboratories, libraries, offices, and other workplaces with a minimum of distractions or interruptions. Consequently, the following regulations have been established, and will be enforced by the appropriate dean or administrative supervisor, to ensure that an appropriate academic environment is maintained:

- Children visiting campus must be closely supervised by an adult at all times.
- Children will be prohibited from entering dangerous settings such as labs and equipment rooms without the approval of the appropriate dean or administrative supervisor.
- Children may not attend a class in session without the prior approval of the instructor. Children under the care of the instructor may not attend class without the prior approval of the immediate supervisor.
- 4. Children may, on rare occasions and with the approval of the supervisor, accompany a parent to the workplace. However, the expectation is that parents will make alternate arrangements for the care of their children during normal working hours.
- Children taking part in programs and/or special events on-campus are expected to abide by the rules and regulations established by the program or event sponsors.

Family Education Rights and Privacy Act (FERPA)

FERPA, the Family Educational Rights and Privacy Act, is a federal law that protects the privacy of student education records and affords students the right to refuse to permit New Mexico State University/Doña Ana Community College from releasing or disclosing any information

about them. Additionally, FERPA gives parents certain rights with respect to their children's education records.

More information about FERPA at NMSU can be found on the Registrar's Office website.

Film Policy

In order to comply with the Federal Copyright Act (Title 17 United States Code) which governs how copyrighted materials, such as films/movies, may be used, it is strongly suggested that chartered student organizations and university departments of New Mexico State University review and adhere to the following guidelines as indicated by the Motion Picture Licensing Corporation when the proposed event involves the screening of a film/movie on the campus. The Department of Campus Activities will be available for consultation regarding the public performance licensing procedures, but will not be responsible for ensuring that the student organization or university department have complied with the intent of the law and have secured the appropriate license.

By law, as well as by intent, the pre-recorded videocassettes and DVDs (referred to henceforth as "Videos") which are available in stores throughout the United States are for all purposes intended for "home use only." Rentals or purchases of Videos do not carry with them licenses for non-home showings. Before you can legally engage in any non-home showings, you must have a separate license, which specifically authorizes such use.

Any institution, organization, company or individual wishing to engage in non-home showings of Videos should be aware of the Copyright Act's provisions governing the showing of Videos. The Copyright Act grants to the copyright owner the exclusive right, among others, "to perform the copyrighted work publicly." (Section 106 -FCA) In summary, the Copyright Act mandates:

- 1. The rental or purchase of a Video does not carry with it the right "to perform the copyrighted work publicly." (Section 202 FCA)
- Videos may be shown without a license in the home to "a normal circle of family and its social acquaintances" (Section 101 – FCA) because such showings are not "public."
- Videos may also be shown without a license for non-profit educational purposes and in certain narrowly defined "face-to-face teaching activities" (Section 110. 1 – FCA) because the law makes a specific, limited exception for such showings. (Sections 106 and 110(1) – FCA)
- 4. Other showings of Videos are illegal unless they have been authorized by license. Even "performances in 'semipublic' places such as clubs, lodges, factories, summer camps and schools are 'public performances' subject to copyright control." (Senate Report No. 94-473, page 60; House Report No. 94-1476, page 64)
- 5. Institutions, organizations, companies or individuals wishing to engage in non-home showings of Videos must secure licenses to do so – regardless of whether an admission or other fee is charged. This legal requirement applies equally to profit-making organizations and non-profit institutions (Senate Report No. 94-473, page 59; House Report No. 94-1476, page 62)

Showings of Videos without licenses, when one is required, are infringements of the established copyright. If done "willfully and for purposes of commercial advantage or private financial gain," they are a federal crime and subject to a \$150,000 penalty per advantage or private financial gain," they are a federal crime and subject to a \$150,000 penalty per exhibition (Section 506 – FCA). In addition, even innocent or

inadvertent infringers are subject to substantial civil damages (\$750 to \$30,000) for each illegal showing and other penalties. (Sections 502-505 - FCA)

To Obtain Public Performance License

Obtaining a public performance license is relatively easy and usually requires no more than a phone call. Fees are determined by such factors as the number of times a particular movie is going to be shown, how large the audience will be and so forth. While fees vary, they are generally inexpensive for smaller performances. Most licensing fees are based on a particular performance or set of performances for specified films. The major firms that handle these licenses include:

Swank Motion Pictures, Inc.

http://www.swank.com (800) 876-5577

Criterion Pictures

http://www.criterionpicusa.com

Motion Picture Licensing Corporation (MPLC)

http://www.mplc.org (800) 462-8855

Freedom of Expression Policy

New Mexico State University/Doña Ana Community College recognizes and promotes an intellectually open campus. The free exchange of ideas through written, spoken, and other forms of expression reflects its public land-grant heritage, support of diverse points of view, and commitment to excellence in education and research.

A. Campus Use for Free Expression

Any outdoor area that is generally accessible to the public may be used by any individual or group for petitioning, distributing written material, handing out newspapers, or conducting speech acts. Prior approval is not necessary as long as the primary action is not to advertise or sell a commercial product. Activities must follow all applicable fire codes, local, state, and federal laws. Activities shall not:

- · Unreasonably obstruct vehicular or pedestrian traffic.
- · Block the entrances or exits to buildings and facilities.
- Permanently occupy land areas or permanently locate signs and posters.
- · Erect permanent structures, shelters or camps.
- Unreasonably interfere with classes, university work, and scheduled events.

In exercising the right of free expression, one must also accept the responsibility of following the laws related to the safety of people and property. If property damage or excessive littering occurs, or other unusual expenses are incurred by the university as a result of the event, event organizers may be held responsible for reasonable charges if deemed appropriate by the President or his/her designee.

- ${\it 1. \ Petitioning \ and \ the \ Distribution \ and \ Posting \ of \ Literature \ and \ Signs}$
 - a. All literature distributed must contain identifying information either (1) the name of an NMSU/DACC sanctioned organization, or (2) the name and address (which may be an organization and e-mail address) of the unaffiliated entity or person or the telephone number of the unaffiliated entity or person for someone to contact in case of litter problems.

- Literature may be distributed hand-to-hand, through the use of tables, or by posting on designated bulletin boards and kiosks.
- c. Written materials may not be placed in non-approved locations. Written materials may not be placed on any part of a university building or structure without university permission. Posting on traffic signs, power poles, trees, and automobile windshields is not allowed.
- d. Tables are allowed as long as they do not unreasonably interfere with pedestrian traffic. Materials may not be left on unattended tables. While scheduling of tables is not required in advance, those individuals who have previously scheduled a site through the Campus Activities Office or other appropriate university offices will take precedence.

2. Group Speech Activities

- a. Group speech activities, including rallies, parades and demonstrations, that are advertised through public media including newspapers, radio, television, flyers, or electronic lists may need to be coordinated through the NMSU Police Department (as described in 2b).
- b. Any individual, group, or organization sponsoring a group speech activity that is expected to draw more than 100 persons at one time and uses public media for advertising must notify the NMSU Police Department no less than 72 hours in advance of the activity, so that the NMSU Police Department can take appropriate actions to ensure the safety of the event and issue a permit as proof of prior notification. Activities expected to draw 500 or more participants, or require road closures or detours, must be scheduled two weeks in advance.
- c. Any individual, group, or organization planning a group speech activity is encouraged to contact the Campus Activities Office in advance so that activities may be coordinated with appropriate university offices. This will allow for locations to be reserved or other concerns to be addressed, such as the use of sound amplification equipment. Contacting the Campus Activities Office is voluntary and does not constitute an approval process.
 - i. All scheduling is done on a "first come, first serve" basis.
 - Activities that are scheduled receive priority in the use of space on campus.

3. Electronic Sound Amplification

- a. The use of electronic sound amplification equipment is authorized in the open lots to the East of the Pan American Center and Aggie Memorial Stadium, the Corbett Center Outdoor Stage, and the "Aggie Pond" area off Espina Street, from 7:00 a.m. to 7:00 p.m. Sunday through Thursday, and from 7:00 a.m. to midnight on Friday and Saturday.
- Sound amplification equipment may be allowed at other times and in other locations if coordinated in advance through the Campus Activities Office.

4. Use of Chalk

- a. Chalk may be used on campus as long as it is restricted to concrete walkways.
- All chalk used must be of a temporary or removable nature.
 Permanent chalk, such as surveyor's chalk, may not be used under any circumstances.

B. Policy Enforcement

Any person violating this policy will be subject to:

 Being asked to cease and desist or to relocate by appropriate university employees acting within the scope of their duties.

- Being ordered to leave the premises or property owned or controlled by the university by the police or a person in charge of the property.
- Institutional disciplinary proceedings under the Student Code of Conduct if violation by a student. Violations by faculty or staff will be referred to the appropriate department or academic unit.
- 4. Arrest for violation of local, state, and federal law(s).
- 5. Restriction of future use of, or access to, the NMSU/DACC campus.

C. Reference to Other Policies Impacting Freedom of Expression

In the event that the terms of this policy conflict with other existing policies impacting freedom of expression in areas generally accessible to the public, the terms of this policy shall prevail.

Fund Raising/Sales and Solicitation

Raising funds is a means for campus organizations to supplement their other resources in meeting the goals of their organization. In order to avoid conflicts, duplications, or violation of laws or regulations, it is necessary to establish guidelines to aid in coordinating such activities.

Although the University supports organizational fund-raising efforts, it recognizes that the campus is not a market place to be exploited by opportune entrepreneurial projects. Fund raising is not the primary function of student organizations, and campus organizations do not have an implicit right to use the campus or the community for fund-raising activities.

Fund raising through sales and solicitations, both on and off-campus, are governed by University Sales and Solicitation Policies. Full text copies of these policies are available from the Campus Activities Office. The Director of Campus Activities makes interpretation of the Sales and Solicitation Policy. The Campus Activities Office is located in Corbett Center Student Union Room 235.

Housing and Residential Life Application Acceptance Policy

The University reserves the right to refuse to give a housing assignment to any student. Examples of reasons for refusal include, but are not limited to, individuals who have a criminal history, individuals who have behavioral problems which may, in the opinion of the University, negatively impact the group living environment, individuals who have been previously evicted from campus housing, or individuals who have poor rental histories.

Housing and Residential Life Dining Regulations

Dining regulations are contained in the Dining Services contract, which each student agrees to when applying for dining services. Additional copies are available in the ID Card Office. Upon reasonable notice and for good cause the University reserves the right to terminate the dining agreement for failure of the student to abide thereby. Examples of good cause include, but are not limited to, failure to abide by the terms of the Dining Agreement, a change in student status (including academic or disciplinary suspension), or a failure to comply with the policies and regulations contained in the Campus Dining Services program brochure and/or official informational bulletins distributed by Campus Dining services which are hereby incorporated into Dining Services Agreement. Dining regulations are enforced under the Student Code of Conduct.

Housing and Residential Life Regulations

Housing regulations are contained in the Single Student Housing License Agreement, which each student agrees to when applying for housing services, as well as the "Housing and Residential Life Handbook," which each student receives at move-in. Additional copies are available at the Housing Office and all residential area offices. Students living off-campus

are also subject to housing regulations when visiting residential areas. Housing regulations are enforced through the Housing and Residential Life Office as well as through the Student Code of Conduct.

Nondiscrimination Policy

The university is dedicated to providing equal employment and educational opportunities to all persons without regard to age, ancestry, color, disability, gender, gender identity national origin, race, religion, sexual orientation, spousal affiliation or veteran status. The university strives to comply with all federal and state nondiscrimination laws, including:

- · Titles VI and VII, Civil Rights Act of 1964
- · Age Discrimination in Employment Act of 1975
- · Equal Pay Act of 1963
- · Pregnancy Act of 1978
- · Education Amendments of 1972, Title IX
- · Section 504 of the Rehabilitation Act of 1973
- · Vietnam Era Veterans Readjustment Act of 1974
- · Executive Order 11246
- · Executive Order 11141
- · Americans With Disabilities Act of 1990
- · Civil Rights Act of 1991
- · New Mexico Human Rights Act

This dedication extends to recruitment, hiring, promotion, compensation, training, benefits, separations, and to the availability and delivery of all educational, academic, and student welfare programs and services. The Office of Institutional Equity/EEO Office is responsible for assuring compliance with equal employment opportunity programs throughout the university. Any individual who wishes to file a discrimination complaint or discuss discrimination issues is encouraged to contact the Office of Institutional Equity/EEO Director or the Human Resources (Personnel) Director if the individual is uncomfortable reporting the complaint to the Office of Institutional Equity/EEO Director. For nondiscrimination complaints or matters, employees may contact the Assistant Director of Employee Relations, Hadley Hall, room 15, and the telephone number is 646-4148.

To access the complete grievance procedures for discrimination, please refer to the <u>New Mexico State University Administrative Rules and</u> Procedures Manual.

Sexual Harassment Policy/Hostile Work/Academic EnvironmentTo access the complete Sexual Harassment Policy, please refer to the New Mexico State University Administrative Rules and Procedures Manual.

All employees and students should be aware that the university is prepared to take action to prevent and remedy such behavior, and that individuals who engage in such behavior are subject to disciplinary action. Faculty and staff with actual or apparent authority who engage in sexual harassment or neglect to control the work environment may be held accountable. Anyone who may have been subjected to sexually offensive behavior or conduct in the classroom or work environment is encouraged to contact the Office of Institutional Equity/EEO Director. The office is located in O'Loughlin House on University Ave. and the telephone number is 646-3635.

Disability: Qualified students with disabilities are to be provided with reasonable accommodation in accessing buildings, programs, and services. Students are encouraged to contact Services for Students with

Disabilities (at 527-7548) for academic related services, and may refer to the "Campus Directory" for resource information, telephone numbers, and Telecommunication Devices for the Deaf (TDD) locations. Disability based discrimination grievances may be filed according to the procedures set forth in Section 4.05.10 of the New Mexico State University Policy Manual (May 6, 2011).

Parking and Traffic Regulations

Anyone who parks anywhere on-campus must obtain and display a parking permit, unless the vehicle is parked in a free lot or at a paid parking meter. The individual in whose name a vehicle is registered or a permit is issued with the Parking Office will be responsible for any violations of the Parking and Traffic Regulations. Additionally, all motor vehicle statutes of the State of New Mexico apply. Call 646-1839 or visit http://www.nmsupolice.com/ for more information.

Procedures for Entry and Search of University-Operated Housing

The University respects the student's desire for privacy within the realm of the group-living experience on state property and will make every effort to protect that privacy. Campus premises occupied by students and the personal possessions of students shall not be searched unless appropriate authorization has been obtained. Campus living quarters may be entered for the purposes and under the restrictions listed:

A. Procedures for Entry

- Maintenance Premises may be entered after knocking, to give attention to health, sanitation, maintenance, and safety requirements.
- 2. Inspections Housing personnel and any other appropriate University official or staff may enter any room/ house/ apartment for inspection purposes, with appropriate written notice. Twenty-four hours' notice will be given whenever possible. Housing personnel or any other appropriate University official conducting the inspection shall report violations of University regulations and state or federal laws via established procedures.
- 3. Other
 - a. The University Housing staff may enter a room/ house/ apartment, after knocking, without written authorization when there exists immediate and compelling cause, i.e., loud noise, complaints from other residents, emergency circumstances (such as fire evacuation), or similar overt occurrences. Evidence of regulatory or statutory violations that exists in plain and open view of the entering staff members may be used in initiating disciplinary procedures.
 - b. In instances where immediate and compelling cause does not exist, written authorization from the individual in charge of the residential area or his superior must be obtained prior to entry. Such authorization must show reasonable cause, i.e., there must exist a reason to believe, other than mere suspicion, that violations of federal and state statutes or University regulations are occurring. If the occupant of the room/house/apartment is absent, a staff member of the residential area must be present during the entry. Evidence of regulatory or statutory violations that exist in plain and open view of the entering staff member may be used in initiating disciplinary procedures.
 - c. Police agency entry Police entrance shall be governed by the requirements of customary legal investigative practice.

B. Procedures for Search

Administrative Search – Upon presentation of reasonable cause, the Director of Housing and Residential Life or his/her superior may issue written authorization for the search of a designated room/house/

apartment and the contents thereof. The authorization stating the reason(s), cause(s), or condition(s) necessitating the search shall be presented to the designated occupant(s) prior to the search. In execution of the search, the Director of Housing and Residential Life or his/her designee, the Coordinator for Residential Communities or his/her designee and the occupant should be present; however, it is not imperative that the occupant be present.

C. Appeal and Grievance Redress

- Entry and Search Authorization Appeals In cases where disciplinary
 procedures arise from evidence obtained on the basis of entry
 or search authorizations, the cause for, validity, or scope of the
 authorization may be challenged by the student-defendant and such
 challenge must be adjudicated by the University disciplinary system
 before any further action is taken.
- 2. Grievance Allegations In such case that a student believes his guaranteed rights have been violated by an act of entrance or search, he/she may present written allegation of this belief to the Vice President for Student Affairs and Enrollment Management, who shall thereupon require an investigation of the allegation. Should this investigation demonstrate that a University employee has intentionally erred and violated a student's rights, this employee shall be subject to disciplinary action, including possible termination.

Posting Policy

Written information may be posted on campus at designated locations (a list may be obtained from the DACC Student Activities Office). Written materials may not be placed on automobile windshields, traffic signs, power poles, trees or any part of a university building or structure including walls, glass, doors or floors. Permission to use building bulletin boards is at the discretion of the building monitor and use must conform to facility operating policies where they exist.

Posters or signs providing directions or information related to a convention or special event may be placed on single stakes and displayed on the date of the event, but must be removed by the sponsoring group when the event is over.

Questions related to the interpretation of this policy should be directed to the Office of Campus Activities.

Smoking Policy

Accumulating evidence has shown environmental or second hand tobacco smoke increases the risk of cancer and other health hazards for non-smokers as well as smokers. NMSU/DACC has a vital interest in maintaining a healthy and safe environment for its students, faculty, staff and visitors while respecting individual choice. Consistent with these concerns and the New Mexico Clean Indoor Air Act, NMSA 1978, § 24-16-1 through 11, the following policy has been established to restrict smoking of tobacco, or any other weed or plant, and provide procedures for accommodating the preferences of both smokers and nonsmokers.

Smoking of tobacco products is prohibited in all buildings (exceptions below) owned or leased by the University as well as within 25 feet of entrance or exit, vehicles, and during some organized outdoor events on University property.

Smoke-Free Areas

Smoking is prohibited in or at:

 All enclosed buildings and facilities including classrooms, offices, food service venues, lavatories, and most residence halls (in accordance with Housing & Residential Life policies);

- Within 25 feet of building entrances and exits (when reasonable) and fresh air intake grills unless it is a specially designated smoking area
- · Partially or fully enclosed walkways, corridors, elevators
- · Vehicles owned, leased or rented by the University; and
- Within 50 feet of any area where flammable materials are handled or stored, or where other significant fire hazard may exist
- · Indoor athletic or other University-sponsored or designated events

No Smoking signs or the international no-smoking symbol will be posted at major entrances of all University buildings except for those campus residences where smoking is permitted.

Smoking Permitted Areas

Smoking is permitted outdoors on University property except during organized events which have been designated as "No Smoking". Individuals choosing to smoke outdoors must be 25 feet from doorways, open windows, enclosed walkways, and ventilation systems to prevent smoke from entering enclosed buildings and facilities, and to prevent public access from being denied to an individual with a respiratory medical condition.

In accordance with Housing and Residential Life policies, smoking is permitted in those units which constitute private residences; when everyone in the shared residence is a smoker or at the discretion of each Family Housing unit.

Fraternities and sororities will work toward an agreement, consistent with University policy during the current school year.

Education and Services for Smokers

In light of numerous adverse health effects associated with active smoking, and with exposure to second hand smoke, the University will provide educational services to faculty, staff, and students about the hazards of smoking and information and services on quitting smoking. In addition to consulting with their own health care providers, students, faculty, and staff may get assistance from the following University programs.

- Students may contact the NMSU Student Health Center for information and programs on quitting smoking.
- Faculty and staff may obtain assistance in smoking cessation through the NMSU Student Health Center.

Cooperation and Compliance

This policy relies on the mutual courtesy and cooperation of smokers and nonsmokers for its success. It is the responsibility of all members of the NMSU/DACC community to observe the provisions of this policy on smoking. Complaints or concerns or disputes regarding its implementation should be referred to the immediate supervisor for resolution. Environmental Health & Safety will assist in determining what distance or location is reasonable for the particular situation. If a resolution cannot be reached, the matter will be referred by the supervisor to the appropriate Department Head, Director, Dean, and Vice President for mediation. Managers, Department Heads and unit Directors are responsible for seeing that persons in their areas are informed and comply with this smoking policy. Those having difficulty complying with these restrictions are encouraged to seek assistance from the resources listed in Section 4. Students, faculty, and staff violating this policy are subject to disciplinary action. Any person who commits an unlawful act under any of the provisions of the New Mexico "Clean Indoor Air Act" shall be fined in an amount not less than ten dollars or more than twentyfive dollars for each violation.

Disposal of Tobacco Waste

Anyone who chooses to smoke or use smokeless tobacco on campus must discard the waste in an appropriate manner.

Vacating University Buildings or Property

The University recognizes the importance of providing a venue where members of the community can freely and openly express their ideas. However, if an individual(s) and/or organization improperly or illegally occupy university buildings or property, the following statement will be read.

You are violating university regulations and/or State laws concerning improper occupation of buildings or property. If you leave within the next 10 minutes, no further action will be taken. If you do not leave within 10 minutes you may be arrested. If you are a student, you may also be subject to disciplinary action as outlined in the Student Code of Conduct.

In the event a crime (other than the peaceful, but illegal occupation of a building or property) has occurred, is occurring, or is about to occur, action may be taken without regard to the above statement by the appropriate university officials in order to protect the safety, lives, and property of the university community.

Student Complaint Procedure for Texas Residents

After exhausting the institution's grievance/complaint process, current, former, and prospective students who are Texas residents may initiate a complaint with the Texas Higher Education Coordinating Board. The required forms must be filed via e-mail or regular mail. Facsimile transmissions of the forms are not accepted.

E-mail Address: StudentComplaints@thecb.state.tx.us

Postal Address:

Texas Higher Education Coordinating Board College Readiness and Success Division P.O. Box 12788 Austin. TX 78711-2788

Required Forms:

- A Student Complaint Form
- A signed Family Educational Rights and Privacy Act (FERPA) Consent and Release Form
- A THECB Consent and Agreement Form
- A signed Authorization to Disclose Medical Record Information Form (only in the case of complaints involving students with disabilities)

The forms listed above are available at the following Web address: http://www.thecb.state.tx.us/index.cfm?objectid=C9BD55D4-C5A3-4BC6-9A0DF17F467F4AE9

Note that one of the downloadable PDF files contains three of the forms.

Constitution of the Student Government Association of DACC ARTICLE I: Preamble

We, the students of Doña Ana Community College, hereby adopt this Constitution which makes provision for a democratic student government organization. The executive officers will consist of a President, VicePresident, Secretary, and Treasurer, duly elected by the Doña Ana Community College student body and Senate Leader selected by DACC Student Senate. The members of officially sanctioned student organizations' shall elect a senator to serve on the DACC Senate Committee. This student government will provide a communication link with the Doña Ana Community College administration, faculty, and student body facilitating the expression of student opinion and voice on campus. The name of this organization shall be called "Student Government Association of Doña Ana Community College," hereafter referred to as the SGADACC.

ARTICLE II: Purpose

The primary purpose of the SGADACC shall be as follows:

- A. To represent the student body of Doña Ana Community College.
- B. To encourage cooperation and communication between the students, faculty, administration, and all other campus organizations.
- C. To provide a forum for student expression and the exchange of student-faculty views.
- D. To enhance the quality of student life at this campus.
- E. To develop good citizenship attitudes by performing community service projects on and off-campus.
- F. To develop leadership skills, training, and development.
- G. To provide students with networking skills and opportunities.

ARTICLE III: Membership

Section 1: The membership of the Student Government Association shall consist of the following:

A: Executive Committee: The Executive Committee shall consist of the following elected officials:

- President
- Vice-President
- Treasurer
- Secretary
- · Senate Leader

Senate leader. Senators shall select, by vote, a Senate leader.

- The Senate leader will attend all executive board meetings and work with the Vice-President to assign senator duties.
- B. Senators: Senators shall be an elected or appointed representative from each active officially sanctioned club of DACC.
- C. Executive Board: The Executive Board shall consist of the SGADACC Executive Committee, and the Vice President for Student Services. The Executive Board will meet prior to each SGADACC senate meeting.
- D. SGADACC Senate:
- 1. The SGADACC Senate will consist of all senators selected or appointed to SGADACC.
- The SGADACC Senate will meet prior to each SGADACC general meeting. The Senate leader will coordinate and conduct all meetings along with Vice President of SGADACC.
 - E. Terms of Office: All SGADACC officers and senators shall serve for one (1) year, commencing July 1 and ending June 30 of the following calendar year. Any elected official shall be eligible to

remain in office provided that he/she maintain a cumulative GPA of 2.5 for Executive Officers, and 2.0 for Senators.

ARTICLE IV: Meetings and Committees

Section 1: The SGADACC shall hold general meetings at a minimum of once a month during the fall and spring semesters. All meetings shall be conducted according to Robert's Rules of Order.

Section 2: The SGADACC shall hold senate meetings at a minimum of once a month during the fall and spring semesters.

Section 3: All students, faculty, and staff associated with DACC may attend general meetings of the Student Government Association.

Section 4: Standing and Ad Hoc Committees shall be appointed as necessary by the President of the SGADACC and chaired by an officer or Senator. The chairperson will report to the President or designated officer of the SGADACC on the committee's progress and will present recommendations from the committee to the SGADACC in senate meetings. The chairperson shall assist and coordinate the work of the committee

ARTICLE V: Duties and Responsibilities

Section 1: The duties and responsibilities of Student Government Association elected officials include, but are not limited the following:

1. President:

- · Shall serve as a role model to the student body.
- Shall have the responsibility of overseeing the duties and responsibilities of the executive committee.
- · Communicating and publicizing the affairs of the student body.
- Shall meet regularly with the Vice President for Student Services
- · Must attend all SGADACC meetings.
- Shall represent the student body at the administrative council meetings and/or any other DACC administrative meeting that requires the presence of the SGADACC.
- May attend meetings with Student Government Associations from different colleges and universities.
- · Shall appoint standing senator committees.
- Shall approve any Requests for Funding and/or Non-Club Requests for Funding.
- Will oversee all communication with student organization presidents.

2. Vice-President:

- · Shall serve as a role model to the student body.
- · Shall assume the role of President in their absence.
- Will oversee all communication with the student organization advisers dealing with requests for funding, activity requests, and/or monthly status reports.
- Will oversee all communication with the DACC departments, dealing with Non-Club requests for funding.
- · Shall attend all SGADACC meetings.
- · Shall assign senator duties with the senate leader.
- · Shall present a report of activities to the student senate.

3. Treasurer

- · Shall serve as a role model to the student body.
- Shall keep an accurate record of all monies received and disbursed.
- Shall prepare financial reports for all SGADACC meetings, including current balance, expenses per student organization, and non-club expenses.
- · Shall oversee all communication with Business Office.
- Shall meet with the Business Office once a month to check the SGADACC balance.
- · Shall attend all SGADACC meetings.

4. Secretary

- · Shall serve as a role model to the student body.
- Shall be responsible for recording the minutes and acting as the official timekeeper of all SGADACC meetings.
- Shall ensure that copies of the minutes of all SGADACC meetings are distributed in a timely manner to all SGADACC officers and the student senate.
- Shall approve the agenda prior to a meeting and prepare a
 presentation if needed. The agenda/presentation shall be sent
 to the executive team 2 days prior the meeting.
- Shall prepare the conference room prior to a SGADACC meeting, ensuring that each SGADACC member has a nametag, a hard copy of the agenda, a seat, and keep track of the sign-in sheet, with the SGADACC administrative assistant.
- Shall update the student database with the SGADACC administrative assistant.
- Shall attend all SGADACC meetings.

5. Senate Leader

- · Shall serve as a role model of the student body.
- · Will attend all SGADACC executive board meetings.
- · Will work with the Vice President to assign senator duties.
- · Shall be responsible for directing all standing committees.
- Shall present a report of activities to the student senate.
- · Shall attend all SGADACC meetings.

6. Senators:

- · Shall serve as roles models of the student body
- Shall serve on at least one standing committee set forth by the senate leader.
- · Shall communicate regularly with the Senate Leader
- Shall participate in at least two SGADACC-sponsored events per semester
- · Shall attend all SGADACC meetings.

ARTICLE VI: Petitioning, Campaigning, and Elections

Section 1:

A. Executive Officers shall be elected at large by the general student body at DACC. To be eligible to run for office, a student shall have a cumulative GPA of 2.5 or better, shall be enrolled in a minimum of 6 credits at DACC and have a declared major. DACC

Executive Officer candidates must also be in good academic standing and not have any Student Code of Conduct violations as determined by the Vice President for Student Services. During the spring semester, it shall be the duty of the President to announce to the student body the date of the elections. Within two (2) weeks after the announcement of the elections, each student who desires to become a candidate for executive office must present to the SGADACC a complete petition for candidacy with at least fifty signatures from students of DACC. If a student signs a petition for more than one person for the same office, his/her signature on all such petitions shall be declared void.

B. All candidates will be given an opportunity to campaign with posters and pin-on materials, to be placed throughout the campus in areas designated by the SGADACC. Any questionable material must be presented for approval to the SGADACC Executive Committee.

Section 2:

A. Voting shall take place on-line and shall be supervised by the Vice President for Student Services. Voting is open to all DACC students. A candidate running for an executive office who receives a majority of the votes cast shall be elected to office. The Vice President for Student Services shall tally the ballots and the results of the election shall be announced at the next regular meeting of the SGADACC.

B. All newly elected officers will be affirmed at the last regular meeting of the SGADACC in order to start their tenure on July 1. The affirming ceremony will be conducted by the Vice President for Student Services, at the beginning of the new school year or as determined by the Vice President for Student Services.

ARTICLE VII: Removals and Resignations

Section 1: Irreconcilable Differences Between Elected Officials: In the event that irreconcilable differences exist between the elected officials, rendering them unable to work together toward the best interests of the Student Government Association, the Vice President for Student Services upon their recommendation and discretion, may remove any or all elected officials in order to preserve the continued well-being of the SGADACC.

Attendance of each elected or appointed SGADACC officer is mandatory at all meetings. Any officer who is absent from two or more consecutive meetings during one semester without a valid reason shall be sent before the SGADACC Executive Committee for evaluation. Removals are conducted due to the neglect of performance of duties as specified by the Constitution.

Section 2: Any elected official desiring to resign from the SGADACC shall submit his/her resignation in writing to the President, who shall read the letter of resignation under "New Business" for the acknowledgment of the Student Government Association.

ARTICLE VIII: Order of Succession

In the event of the President's resignation, the letter will be addressed to the Vice President for Student Services. Should the President, in some manner, be rendered temporarily unable to fulfill the duties and discharge the powers of his/her office, authorities, responsibilities and duties of such office, the Presidency will be turned over to the Vice President, and shall revert back to the President upon his/her declaration of fitness to serve. In the event the President should resign

or be removed from his/her office, the duties and responsibilities shall be given to the Vice President. The Vice President for Student Services, Executive Committee, and Senate will determine the order of succession of executive responsibility in the event that both the President and Vice President become unable to fulfill their responsibilities. If the Vice President resigns, procedure will be followed per Article VII, Section 2. If the Vice President is recalled or in some manner rendered unable to fulfill his/her duties, authorities, or responsibilities of such office, the position of the Vice President will be left to the Executive Committee to fill. An announcement will be made within five (5) working days to all DACC Students that the Vice Presidency is vacant. Proper procedures will be followed with a letter of petition submitted within one (1) week after the vacancy has been announced. These petitions will be reviewed by the Executive Committee and all candidates will be given the opportunity to speak before the SGADACC. A quorum is required to vote, and the SGADACC, by secret ballot, will determine who will fill the position of the Vice Presidency. The Executive Committee shall have the power to appoint a Secretary or Treasurer in the event of a resignation, removal, or other circumstance by which the office becomes vacant.

A. Senator(s) who resigns his/her/their seat or is/are removed will be replaced by another student in that student club. Applications for the open positions will be reviewed, and the Executive Committee will then appoint a replacement from the applications.

ARTICLE IX: Organizations/Clubs

Section 1: To be chartered through the SGADACC, an organization shall have a membership of seven or more students and two (2) community-service or campus projects per semester. Organizations shall submit a Student Organization Recognition/Renewal Form (Form A), a Student Organization Officer Roster (Form B), a club membership list, and official by-laws to the Student Government Association prior to the first senate meeting of the fall semester. Updated student organization officer rosters and club membership lists are required prior to the first senate meeting of the spring semester. Forms not submitted by published deadlines will not be chartered for the applicable semester.

Section 2: For the purpose of obtaining any needed funds, all chartered organizations shall make a request to the Student Government Association in the form of a "Request for Funding" (RFF), Refer to the SGADACC Student Organization Handbook to ensure that all procedures are followed. Any organization failing to conduct business in the best interest of the DACC and not abiding by their by-laws, the SGA Constitution, and/or NMSU/DACC policies may no longer be chartered by the SGADACC, thus being denied funds by the Student Government Association. Exception to this policy can be addressed to the SGADACC in a closed meeting.

ARTICLE X: Budgets

Section 1: the Student Government Association of Doña Ana Community College will adhere to expenditure procedures as outlined in the NMSU Business Policies and Procedures Manual. Financial records shall be maintained by the Doña Ana Community College Finance Office. The Finance Office shall provide monthly reports of all transactions to the treasurer of the Student Government Association so that an accurate record of finances can be recorded by the SGADACC. All funds shall be distributed through the DACC Finance office.

Section 2: Student Government Association monies must be expended according to the following guidelines:

- Annual expense budget will be prepared and approved by the SGADACC and the executive board before any expenditure can be dishursed
- Funds can only be used for the benefit of current DACC students for the purposes of enrollment, retention, and/or completion.
- The President and the Treasurer are the only persons who can sign request for funding/purchase orders for expenditures approved by the Student Government Association.
- 4. All expenditures require the signature of the President, Treasurer, and the Vice President for Student Services.
- Expenditures in excess of \$1,500 require competitive quotes and should be coordinated with the Vice President for Student Services and the Vice President for Business and Finance.
- All funding requests are subject to approval of the Executive Committee.

Section 3: The Student Government Association of DACC shall submit an annual expense budget to the Vice President for Student Services for use by the Student Government Association of DACC.

ARTICLE XI: Payment to Officers and Senators

Section 1: The Vice President for Student Services and the Executive Committee shall agree on a set amount to be paid to each Executive Officer and the Senate Leader on an annual basis given the annual allotment from student fees and budgetary constraints. Payments to officers will be disbursed according to Human Resources Policy.

Section 2: The Vice President for Student Services and the Executive Committee shall agree on a set amount to be paid each senator on a semester basis given the annual allotment from student fees and budgetary constraints.

ARTICLE XII: Emergency Action Clause

Section 1: The Executive Committee shall establish regular meeting times for themselves to discuss agendas and other issues which need to be presented at general meetings. The Executive Committee shall have the power to act in the name of the Student Government Association in situations where the membership cannot be called into session and immediate action is necessary. The Executive Committee shall report any action taken to the general membership at the next scheduled meeting.

Section 2: The President has executive power to make decisions in the name of the Student Government Association in a situation where the Executive Committee cannot be called into session and when immediate action is necessary. The President shall report any action taken to the Vice President for Student Services. The President shall report any action taken at the next regular scheduled Student Government Association senate and general meeting.

ARTICLE XII: Amendments to Constitution

Section 1: This Constitution can be amended or revised by a two-thirds (2/3) majority vote of the membership of the Student Government Association. The proposed amendment or revision shall be presented at the next general meeting of the Student Government Association. The proposed amendment(s) or revision(s) shall not be discussed or voted upon until the next general meeting. If passed, the proposed amendment(s) or revision(s) will be reviewed by the Vice President for Student Services for approval or veto.

Governance and Personnel

NEW MEXICO STATE UNIVERSITY

Administration

Dr. Dan Arvizu, Chancellor

Dr. John Floros, NMSU Las Cruces Campus President

Dr. Carol Parker, Provost and Senior Vice President for Academic Affairs

Dr. Gregory Fant, Associate Vice President and Deputy Provost

Board of Regents

Michelle Lujan Grisham, Governor of New Mexico, Ex Officio Regent (Santa Fe, N.M.)

Dina Chacón-Reitzel, Chair (Albuquerque, N.M.)

Ammu Devasthali, Vice Chair (Las Cruces, N.M.)

Luke Sanchez, Secretary/Treasurer (Las Cruces, N.M.)

Debra P. Hicks, Member (Hobbs, N.M.)

Arsenio Romero, Member (Deming, N.M.)

Ex Officio Members

Rebecca Corran, Faculty Senate Chair Sonia A. White, Employee Council Chair Evan Connor, ASNMSU President

DOÑA ANA COMMUNITY COLLEGE

Administration

Dr. Mónica Torres, President

Dr. Charles Abasa-Nyarko, Vice President for Academic Affairs Kelly Brooks, Vice President for Business and Finance Amadeo E. Ledesma, Vice President for Student Services Eddie Binder, Vice President for External Relations

Advisory Board

Elva Garay, President (Hatch Valley Public Schools) Laura Salazar Flores, Vice President (Gadsden Independent School District)

Ray Jaramillo, Secretary (Las Cruces Public Schools)
Daniel Castillo, Member (Gadsden Independent School District)
Lupe Castillo, Member (Hatch Valley Public Schools)
María Flores, Member (Las Cruces Public Schools)

Ex Officio Members

Travis L. Dempsey, Superintendent, Gadsden Independent School District

Michael Chavez, Superintendent, Hatch Valley Public Schools Karen Trujillo, Superintendent, Las Cruces Public Schools

Academic Division Deans

Saundra Castillo, Advanced Technologies Division Martin Wortman, Arts, Humanities, and Social Services Division Lydia Bagwell, Business and Public Services Division Josefina Carmona, Health Sciences Division Joe Butler, Science, Engineering, and Mathematics Division

CLICK HERE FOR DACC FACULTY LISTINGS

Policy Statement on Discrimination and Affirmative Action

Notice of Non-Discrimination

New Mexico State University (NMSU) is dedicated to providing equal opportunities in our employment and learning environments. NMSU does not discriminate on the basis of age, ancestry, color, disability, gender identity, genetic information, national origin, race, religion, retaliation, serious medical condition, sex (including pregnancy), sexual orientation, spousal affiliation, or protected veteran status in its programs and activities as required by equal opportunity/affirmative action regulations and laws and university policy and rules.

NMSU's Office of Institutional Equity is responsible for compliance with state and federal equal employment opportunity laws and affirmative action regulations. This incorporates implementation of the University's Affirmative Action plan including equal opportunity practices, monitoring, and reporting. If you believe you have been treated in a manner inconsistent with equal opportunity, contact the Office of Institutional Equity.

NMSU has designated Laura Castille as the Title IX Coordinator and she is responsible for ensuring compliance with Title IX and other state and federal laws addressing sexual and gender-based harassment, including sexual assault, sexual exploitation, sexual intimidation, intimate partner abuse, stalking, and other forms of sexual violence based on sex, gender, sexual orientation, or gender identity.

NMSU recognizes that individuals with disabilities are entitled to access, support and, when appropriate, reasonable accommodation. Ms. Millot is also assigned to coordinate compliance with Section 504 and other state and federal laws that prohibit discrimination on the basis of disability in admission, treatment and/or access to its programs and activities.

Inquiries regarding equal opportunity, affirmative action, Title IX, and/or Section 504 should be directed to:

Laura Castille
Executive Director
Title IX Coordinator and Section 504 Coordinator
Office of Institutional Equity
O'Loughlin House
Las Cruces, NM 88003
(575) 646-3635
equity@nmsu.edu (%20equity@nmsu.edu)

In addition, Agustin Diaz, Jr. has been designated as Deputy Title IX Coordinator and Angela Velasco has been designated as Deputy Section 504 Coordinator. Mr. Diaz and Ms. Velasco can be contacted at the O'Loughlin House or by telephone (575) 646-3635.

Complaints of discrimination, harassment, sexual violence, and retaliation may be directed to the Office of Institutional Equity at equity@nmsu.edu (%20equity@nmsu.edu). Complaints may also be filed with the Department of Education Office for Civil Rights, Equal Employment Opportunity Commission, and/or New Mexico Human Rights.

Equal Opportunity/Affirmative Action Statement

New Mexico State University, in compliance with applicable laws and in furtherance of its commitment to fostering an environment that welcomes and embraces diversity, does not discriminate on the basis of age, ancestry, color, disability, gender identity, genetic information,

national origin, race, religion, retaliation, serious medical condition, sex (including pregnancy), sexual orientation, spousal affiliation, or protected veteran status in its programs and activities, including employment, admissions, and educational programs and activities. Inquiries may be directed to the Executive Director, Title IX and Section 504 Coordinator, Office of Institutional Equity, P.O. Box 30001, 1130 E. University Avenue, Las Cruces, NM 88003; 575-646-3635; equity@nmsu.edu (%20equity@nmsu.edu).

NMSU is committed to providing reasonable accommodations to qualified individuals with disabilities upon request. To request an accommodation, please contact Student Accessibility Services, Corbett Center Student Union, Room 2008, Las Cruces, NM 88003; 575-646-6840 or sas@nmsu.edu (%20sas@nmsu.edu) or the Office of Institutional Equity, O'Loughlin House, 1130 E. University Avenue, Las Cruces, NM 88003; 575-646-3635 or equity@nmsu.edu (%20equity@nmsu.edu). One week advance notice is appreciated. To request this document in an alternative form, please contact those listed above.

INDEX

A	
A S-ARTS AND SCIENCES	326
About the Community College	. 11
Academic Advising and Registration	. 15
Academic and Career Programs	. 97
Academic Calendar and Contact Information	8
Academic Code of Conduct	445
ACCT-ACCOUNTING	326
ACES-AGRI, CONSUMER & ENV SCIE	326
Additional Policies and Procedures	446
Admissions	12
Adult Education	320
Advertising Representative - Certificate of Achievement	136
AEEC-AGRICULTURAL ECON/ECON	326
AERO-AEROSPACE STUDIES	327
Aerospace Technology	. 99
Aerospace Technology - Associate of Applied Science	100
Aerospace Technology - Certificate of Completion	102
AERT-AEROSPACE TECHNOLOGY	327
Aggie Pathway	. 15
AGRO-AGRONOMY	328
AHS-ALLIED HEALTH SCIENCE	328
Allied Healthcare Assistant	102
ANSC-ANIMAL SCIENCE	329
ANTH-ANTHROPOLOGY	330
Applying DACC Credit Towards Bachelor's Degree Programs	. 56
ARCH-ARCHITECTURE	331
Architectural Technology - Associate of Applied Science	210
Architectural Technology - Certificate of Completion	215
ART-ART	333
ARTH-ART HISTORY	333
ARTS-ART STUDIO	333
Associate in General Studies	111
Associate of Arts	112
Associate of Science	115
ASTR-ASTRONOMY	335
AUTO-AUTOMOTIVE TECHNOLOGY	335
Automation and Manufacturing - Certificate of Completion	122
Automation and Manufacturing Technology	119

Automation and Manufacturing Technology - Associate of Applied Scie	ence 120
Automotive Technology	123
Automotive Technology - Associate of Applied Science	124
Automotive Technology - Certificate of Completion	126
AVIM-AVIATION MAINTENANCE	337
AXED-AGRICULTURAL EXTN EDUC	338
В	
B A-BUSINESS ADMINISTRATION	338
Basic Firefighter - Certificate of Completion	
Basic Manufacturing and Bridge - Certificate of Completion	
Basic Policies and General Information	
Basic Solar - Certificate of Completion	
BCHE-BIOCHEMISTRY	
BCIS-BUSINESS COMPUTER SYSTEMS	
BCT-BUILDING CONSTRUCTION TECH	
BFIN-BUSINESS FINANCE	
BIOL-BIOLOGY	
Biomedical Electronics - Certificate of Completion	
BLAW-BUSINESS LAW	
BLED-BILINGUAL EDUCATION	
BMGT-BUSINESS MANAGEMENT	
BOT-BUSINESS OFFICE TECHNOLOGY	
Building Construction Technology	
Building Construction Technology - Associate of Applied Science	
Building Construction Technology - Basic Residential Wiring Certificat	
Building Construction Technology - Basic Solar Certificate of Comple	etion
	132
Building Construction Technology - Certificate of Completion	130
Building Construction Technology - Energy Auditing Certificate Completion	of 132
Building Construction Technology - Plumbing Certificate of Comple	tion 133
BUSA-BUSINESS ADMINISTRATION	344
Business Fundamentals - Certificate of Completion	136
Business Management	133
Business Management - Associate of Business Occupations	138
Business Management (Finance & Banking Services) - Associate Business Occupations	
Business Management (General Management) - Associate of Busin Occupations	ness 141
Business Management (Retail Marketing & Sales) - Associate of Busin Occupations	

C		Cybersecurity - Associate of Applied Science	157
C E-CIVIL ENGINEERING	344	Cybersecurity - Certificate of Completion	161
C S-COMPUTER SCIENCE	345	D	
CCDE-DEVELOPMENTAL ENGLISH	346	DACC Locations	26
CCDM-DEVELOPMENTAL MATHEMATICS	346	DANC-DANCE	355
CCDR-DEVELOPMENTAL READING	346	DAS-DENTAL ASSISTING	357
CCDS-DEVELOPMENTAL SKILLS	347	Dental Assistant	190
CEPY-COUNSELING & EDUCATIONAL PSYCHOLOGY	347	Dental Assistant - Certificate of Completion	192
CHEF-CULINARY ARTS	348	Dental Hygiene	193
CHEM-CHEMISTRY	349	Dental Hygiene - Associate of Applied Science	196
CHIN-CHINESE	351	Developmental Studies, College Studies and General Education Cou	
CHME-CHEMICAL & MATERIALS ENGR	351		
CHSS - COMM HEALTH/SOC SRVCS	351	DHYG-DENTAL HYGIENE/HYGIENIST	
Cisco Networking - Certificate of Completion	159	Diagnostic Medical Sonography	
Civil/Survey Technology - Associate of Applied Science	211	Diagnostic Medical Sonography - Associate of Applied Science	
Civil/Survey Technology - Certificate of Completion	215	Diagnostic Medical Sonography - Certificate of Completion	
CJUS-CRIMINAL JUSTICE	352	Digital Audio - Certificate of Completion	
COMM-COMMUNICATION	352	Digital Film - Associate of Applied Science	
Commercial Photography - Certificate of Completion	173	Digital Graphics - Certificate of Completion	
Common Course Numbering Crosswalk	. 57	Digital Graphics Technology - Associate of Applied Science	
Community Health Worker - Certificate	302	Digital Video - Certificate of Completion	
Computed Tomography - Certificate of Completion	307	Distance Education	
Computer and Information Technology	144	DMS-DIAGNOSTIC MED SONOGRAPHY	
Computer Information Systems - Certificate of Completion	160	Doña Ana Academic Catalog	
Computer Information Technology - Certificate of Completion	160	Drafting and Design Technologies	
Computer Technology (IT Specialist) - Associate of Applied Science	150	Drafting and Graphics Technology - Certificate of Completion	
Computer Technology (Networking) - Associate of Applied Science	152	DRFT-DRAFTING	
${\bf Computer Technology (Programming) - Associate of Applied Science .}$	155	Dual Credit Program	. 14
Constitution of the Student Government Association of DACC	452	E	
Corrections - Associate of Applied Science	181	E E-ELECTRICAL ENGINEERING	365
Course Descriptions	323	E T-ENGINEERING TECHNOLOGY	365
Creative Media - Certificate of Achievement	173	Early Childhood Education	218
Creative Media Technology	164	Early Childhood Education - Administrator's Certificate	223
Criminal Justice - Associate of Criminal Justice	183	Early Childhood Education - Associate Degree	221
Criminal Justice and Law Enforcement	178	ECED-EARLY CHILDHOOD EDUCATION	368
CSEC-CYBERSECURITY	352	ECON-ECONOMICS	369
CTEC-CYBER TECHNOLOGY	353	EDLT-EDUCATIONAL TECHNOLOGY	369
CTFM-CLTHNG/TXTLS/FSHN MRCHDSG	355	EDUC-EDUCATION	370
Culinary Arts	186	Education	223
Culinary Arts - Associate of Applied Science	188	Education (Elementary Education) - Associate Degree	224
Culinary Arts - Baking & Pastry - Certificate of Completion	189	Education (Elementary Education - Special Education) - Associate De	egree 226
Culinary Arts - Savory - Certificate of Completion	190	Education (Secondary Language Arts) - Associate Degree	

Education (Secondary Math) - Associate Degree	230	FYEX-FIRST YEAR EXPERIENCE	. 383
Education (Secondary Science) - Associate Degree	232	G	
Education (Secondary Social Studies) - Associate Degree	234	Game Design - Certificate of Completion	176
ELAD-EDUCATIONAL LEADERSHIP ADMINISTRATION	370	Game Development - Associate of Applied Science	
Electrical Lineworker - Certificate	237	GENE-GENETICS	
Electrical Programs	235	General Business Management - Certificate of Completion	137
Electrocardiogram Technician - Course Completion Certificate	110	General Education	
Electronics Technology	238	General Education & Transfer Options	52
Electronics Technology - Certificate of Completion	244	General Engineering	. 264
Electronics Technology (Biomedical Electronics) - Associate of A		General Engineering - Associate of Science	. 265
Electronics Technology (General Electronics) - Associate of A	Applied	General Information	
Science		GEOG-GEOGRAPHY	
ELT - ELECTRONICS TECHNOLOGY	370	Geographical Information Systems - Certificate of Completion	216
ELWK-ELECTRICAL LINEWORKER	372	GEOL-GEOLOGY	. 384
Emergency Medical Services	245	GNDR-WOMEN'S STUDIES	. 385
Emergency Medical Services - Associate of Applied Science	248	Governance and Personnel	. 455
EMT - Basic - Certificate of Achievement	250	Graduation Requirements	50
EMT - Intermediate - Certificate of Achievement	251	Graphics and Animation - Certificate of Completion	. 177
EMT Paramedic - Certificate of Completion	251	Grievance Procedures	. 445
Energy Conservation - Certificate of Completion	257	GRMN-GERMAN	385
Energy Evaluation - Certificate of Completion	258	Н	
ENGL-ENGLISH	372	Health Information Technology	. 267
ENGR-ENGINEERING	374	Health Information Technology - Associate of Applied Science	268
ENTR-ENTREPRENEURSHIP	374	Health Information Technology - Certificate of Completion	270
Environmental and Energy Technologies	253	Heating, Ventilation, Air Conditioning and Refrigeration	270
Environmental and Energy Technologies - Associate of Applied S		Heating, Ventilation, Air Conditioning and Refrigeration - Associa	
ENVS-ENVIRONMENTAL SCIENCE	375	HIST-HISTORY	. 385
EPWS-ETMLGY/PLNT PTHLGY/WD SCI	375	HIT-HEALTH INFO TECHNOLOGY	386
F		HLED-HEALTH EDUCATION	387
FCSC-FAMILY AND CONSUMER SCIENCES	375	HMSV-HUMAN SERVICES	. 387
FCST-FAMILY AND CHILD STUDIES		HNRS-HONORS	. 387
FDMA-FILM & DIGITAL MEDIA ARTS		HORT-HORTICULTURE	. 389
Film Crew Training - Certificate of Completion	176	Hospitality and Tourism	276
Financial Aid		Hospitality and Tourism (Food & Beverage) - Associate of Applied So	
Fire Science Technology			
Fire Science Technology - Associate of Applied Science		Hospitality and Tourism (Lodging & Tourism) - Associate of Applied Sc	
FIRE-FIRE INVESTIGATION	380	Hospitality Services Management	
First Responder Prehospital - Certificate of Achievement	253	Hospitality Services Management - Associate of Applied Science	
FREN-FRENCH	382	HOST-HOSPITALITY AND TOURISM	
FSTE-FOOD SCIENCE & TECHNOLOGY	382	HRTM-HOTEL/RESTRNT/TOURISM MGT	
FWCE-FISH,WILDLF,CONSERV ECOL	383	HVAC-HEATING/AC/REFRIGERATION	391

HVAC/R - Certificate of Completion	274	0	
I		OATS-OFFICE ADMINISTRATION TECHNOLOGY SYSTEMS	409
I E-INDUSTRIAL ENGINEERING	392	OEBM-BIOMEDICAL TECHNOLOGY	412
INMT - INDUSTRIAL MAINTENANCE	393	OECS-COMPUTER TECHNOLOGY	412
Institutional and Program Accreditations	9	OEEM- PARAMEDIC	415
INTEGRATED NATURAL SCIENCES	394	OEET- ELECTRICAL TRADES	417
J		OEGR-DIGITAL GRAPHIC TECH	418
JAPN-JAPANESE	394	OEGS-GEOGRAPHIC INFO SYS	418
JOUR-JOURNALISM	394	OETS-TECHNICAL STUDIES	418
L		Office Administration Technology	287
L SC-LIBRARY SCIENCE	395	Office Administration Technology - Certificate	295
LANG-LANGUAGE		Office Administration Technology - Medical Billing Certificate	296
Law Enforcement - Associate of Applied Science		$Of fice Administration Technology {\text{-}} Medical Transcription Certificate $	297
LAWE-LAW ENFORCEMENT		Office Administration Technology (Administrative Assistant) - Associa Applied Science	
LIBR-LIBRARY SCIENCE	397	Office Administration Technology (Bookkeeping Assistant) - Associa	
Licensed Practical Nurse - Certificate	286	Applied Science	
LING-LINGUISTICS	397	Office Administration Technology (Medical Office Assistant) - Associa	
M		Applied Science Oracle Programming - Certificate of Completion	
M E-MECHANICAL ENGINEERING	397		102
M SC-MILITARY SCIENCE	398	P	
MAT-AUTOMATION & MANUFACTURING	399	Patient Care Technician - Certificate of Completion	
MATH-MATHEMATICS	400	PHED-PHYSICAL EDUCATION	
Mechanical Drafting and Solid Modeling - Associate of Applied Sci	ience	PHIL-PHILOSOPHY	
		Phlebotomist Basic - Course Completion Certificate	
Mechanical Drafting and Solid Modeling - Certificate of Completion		PHLS-PUBLIC HEALTH SCIENCES	
Medical Assisting - Associate of Applied Science		PHYS-PHYSICS	
MGMT-MANAGEMENT		PL-S-PARALEGAL SERVICES	
MKTG-MARKETING		Policy Statement on Discrimination and Affirmative Action	
MUSC-MUSIC	402	POLS-POLITICAL SCIENCE	
N		PORT-PORTUGUESE	
NA - NURSING ASSISTANT	404	Pre-Architecture - Associate of Applied Science	
NAV-NAVAJO	405	Pre-Architecture - Certificate of Completion	
NGEC-NATURAL GAS ENGINE COMP	405	Pre-Business Associate Pearse	
NMSU System Academic Regulations	27	Pre-Business - Associate Degree	
Noncredit Programs	320	Pre-Surgical Technician Program	
NURS-NURSING	406	Programming - Certificate of Completion	
Nursing	283	PSYC-PSYCHOLOGY	
Nursing - Associate in Nursing	285	Public Health	
Nursing Assistant - Certificate of Completion	106	Public Sefety First Line Supervisor Cortificate of Ashiovement	
NUTR-NUTRITION	409	Public Safety First Line Supervisor - Certificate of Achievement	183
		Radiologic Technology	303

Radiologic Technology - Associate of Applied Science	305
RADT-RADIOLOGIC TECHNOLOGY	423
Residential HVAC - Certificate of Completion	275
RESP - RESPIRATORY THERAPY	425
Respiratory Therapy	307
Respiratory Therapy - Associate of Applied Science	309
RGSC-RANGE SCIENCE	426
S	
SIGN-SIGN LANGUAGE	426
Small Business Development Center	322
SMET-SCIENCE/MATH/ENG/TECH	426
SOCI-SOCIOLOGY	426
SOIL-SOIL	427
Solar Energy Technology - Certificate of Completion	259
SOWK-SOCIAL WORK	427
SPAN-SPANISH	427
SPED-SPECIAL EDUCATION	428
SPHS-SPEECH & HEARING SCIENCE	428
SPMD-SPORTS MEDICINE	428
Student Complaint Procedure for Texas Residents	452
Student Handbook	435
Student Services Offered at DACC	23
Student Services on the NMSU Las Cruces (main) Campus	. 24
Student Social Code of Conduct	436
SUR-SURVEYING	429
SURG-SURGICAL TECHNOLOGY	429
System Administration - Certificate of Completion	163
Т	
TCEN-ENVIRONMENTAL/ENERGY TECH	431
THEA-THEATER	432
Tuition and Fees	18
V	
▼ Veteran Students	22
W	
	311
Water Technology - Associate of Water Technology	313
Water Technology - Certificate of Completion	
WATR-WATER UTILITIES	
Web Design - Certificate of Completion	
Welcome Bienvenidos	
WELD-WELDING TECHNOLOGY	

Welding Technology	316
Welding Technology - Associate of Applied Science	318
Welding Technology - Certificate of Completion	320
Workforce Development and Career Readiness	322