

Student Achievement

Students in the Fire Science Program at DACC succeed by achieving Associate of Applied Science degrees or by completing the FIRE 101 and FIRE 104 sequence (or FIRE 102) that qualifies them for application to several regional fire service organizations. The majority of students in the Fire Science Program complete this sequence rather than pursuing an associate degree.

Awards							
	2013-2014	2014-2015	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020
Associate Degrees	11	7	7	6	3	6	7
Certificates	1	0	1	1	0	4	3

Retention in the Fire Science Program averages approximately 59% which is within national norms for Community College retention rates. Program pass-rates have trended upward over the past five years while withdrawal rates for the last two years has remained steady at 3%.

Attrition and Retention						
	2013-2014	2014-2015	2015-2016	2016-2017	2017-2018	2018-2019
Persistence	71%	64%	69%	71%	69%	61%
Retention	60%	52%	58%	44%	54%	59%
Program Pass-Rate	78%	72%	85%	81%	89%	83%
Program Withdrawal Rate	7%	9%	6%	4%	3%	3%

Over the previous five academic years, student enrollment has fluctuated and is now rebounding in a positive direction. With the increased recruiting efforts and greater collaboration with area fire agencies, it is anticipated that the overall student enrollment number will continue to increase. The continuing increase of non-traditional students is a statistic that is noteworthy. The increase in SCH and headcount for 2018-2019 is a result of partnering with local Fire Services and supporting their professional development needs.

Student Enrollment						
	2013-2014	2014-2015	2015-2016	2016-2017	2017-2018	2018-2019
Headcount	117	91	69	68	77	111
Student Credit Hours (SCH)	1226	821	524	681	736	1219
Majors	130	112	89	74	53	63
Females Enrolled	7%	9%	9%	16%	21%	17%
Males Enrolled	93%	91%	91%	84%	79%	83%

The stable number of sections offered has allowed students to complete the program in a timely manner and the small class size provides the opportunity for greater faculty-student interactions.

Program Sections and Utilization						
	2013-2014	2014-2015	2015-2016	2016-2017	2017-2018	2018-2019
Section Count	17	16	13	17	18	23
Average Class Size	18	13	10	10	11	14

Graduate Placement

2013-2020 Graduate Placement

First Name	Term	Degree	Major	Employer
Gilbert	2013-2014	AAS	Fire Science Technology	Doña Ana County Fire Department
Arturo	2013-2014	AAS	Fire Science Technology	Self-Employed
Michael	2013-2014	AAS	Fire Science Technology	Las Cruces Fire Department
John	2013-2014	AAS	Fire Science Technology	Unknown
Milo	2013-2014	AAS	Fire Science Technology	Unknown
Raul	2013-2014	AAS	Fire Science Technology	Unknown
Sean	2013-2014	AAS	Fire Science Technology	Las Cruces Fire Department
Nicholas	2013-2014	AAS	Fire Science Technology	Unknown
Samuel	2013-2014	AAS	Fire Science Technology	Deceased
Roberto	2013-2014	AAS	Fire Science Technology	Las Cruces Fire Department

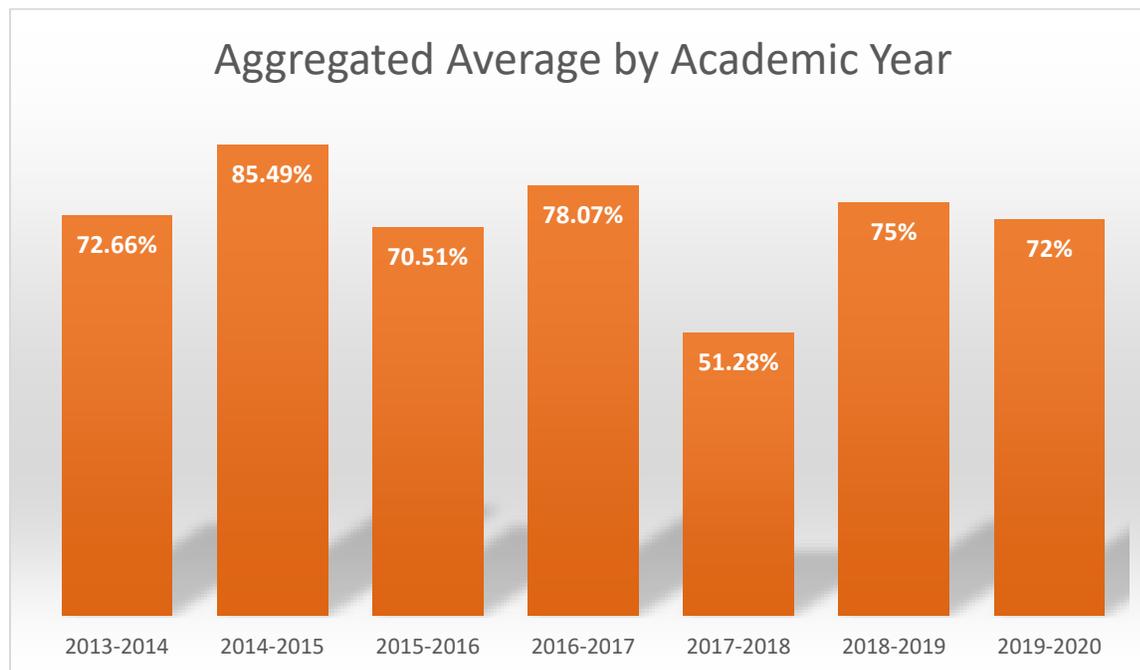
Johnny	2013-2014	AAS	Fire Science Technology	Unknown
Scott	2013-2014	AAS	Fire Science Technology	Boeing Fire Department
John	2013-2014	AAS	Fire Science Technology	Las Cruces Fire Department and NMSU Fire Department
Patrick	2013-2014	AAS	Fire Science Technology	Unknown
Angelo	2013-2014	AAS	Fire Science Technology	Albuquerque Fire Department
Lisa	2014-2015	AAS	Fire Science Technology	Moved Out of State
Gabriel	2014-2015	AAS	Fire Science Technology	Bernalillo Fire Department
Joshua	2014-2015	AAS	Fire Science Technology	Las Cruces Fire Department
Jordan	2014-2015	AAS	Fire Science Technology	Unknown
Andrew	2014-2015	AAS	Fire Science Technology	Las Cruces Fire Department
Isaac	2014-2015	AAS	Fire Science Technology	Las Cruces Fire Department
Brandon	2014-2015	AAS	Fire Science Technology	Unknown

Patrick	2015-2015	AAS	Fire Science Technology	Unknown
Daniel	2015-2016	AAS	Fire Science Technology	Unknown
Raymond	2015-2016	AAS	Fire Science Technology	Unknown
Robin	2015-2016	AAS	Fire Science Technology	University Medical Center – El Paso, Texas
Gabriel	2015-2016	AAS	Fire Science Technology	Unknown
Christopher	2015-2016	AAS	Fire Science Technology	Las Cruces Fire Department
Christopher	2015-2016	AAS	Fire Science Technology	Employed Outside of Fire Services
Joshua	2015-2016	AAS	Fire Science Technology	Pursuing Bachelor’s Degree at NMSU
Samuel	2016-2017	AAS	Fire Science Technology	Deming Fire Department
Mitchell	2016-2017	AAS	Fire Science Technology	White Sands Test Facility Fire Department
Kristin	2016-2017	AAS	Fire Science Technology	Las Cruces Fire Department
Dominick	2016-2017	AAS	Fire Science Technology	Pending Albuquerque Fire Department

Joshua	2016-2017	AAS	Fire Science Technology	Pursuing Bachelor's Degree at NMSU
Dominic	2016-2017	AAS	Fire Science Technology	Pending Las Cruces Fire Department
William	2018-2019	AAS	Fire Science Technology	NASA/WSTF Fire Department
Alejandro	2018-2019	AAS	Fire Science Technology	Las Cruces Fire Department
Tyler	2018-2019	AAS	Fire Science Technology	Alamogordo Fire Department
Jared	2018-2019	AAS	Fire Science Technology	US Forest Service Fire
Austin	2018-2019	AAS	Fire Science Technology	Alamogordo Fire Department
Valerie	2019-2020	AAS	Fire Science Technology	NASA WSTF Fire Department
Lourdes	2019-2020	AAS	Fire Science Technology	Tularosa VFD
Humberto	2019-2020	AAS	Fire Science Technology	Mesilla VFD
Anthony	2019-2020	AAS	Fire Science Technology	US Forest Service Fire
Thomas	2019-2020	AAS	Fire Science Technology	NASA WSTF Fire Department

Joshua	2019-2020	AAS	Fire Science Technology	Unknown
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Fire Science Program IFSAC Certification Scores Aggregated Average by Academic Year



2019-2020 Program Outcome Results

Students passed all IFSAC certification exams with an average 72% pass rate which resulted in 64 IFSAC certifications being granted through the New Mexico Firefighter's Training Academy. The SPRING 2020 term was not completed due to COVID-19 restrictions and the pending IFSAC certification exam are scheduled for late SUMMER 2020.

2018-2019 Program Outcome Results

Students passed all IFSAC certification exams with an average 75% pass rate which resulted in 70 IFSAC certifications being granted through the New Mexico Firefighter's Training Academy.

2017-2018 Program Outcome Results

Students passed all IFSAC certification exams with an average 51.28% pass rate which resulted in 78 IFSAC certifications being granted through the New Mexico Firefighter's Training Academy. Courses with certification pass rates below the established threshold were evaluated. It was determined that students experienced difficulties with concepts taught in FIRE 126, Inspector I and FIRE 223, Investigator I. As a result, a change in course delivery methods was implemented.

2016-2017 Program Outcome Results

Students passed all IFSAC certification exams with an average 78% pass rate which resulted in 33 IFSAC certifications being granted through the New Mexico Firefighter's Training Academy. Courses with certification pass rates below the established threshold were evaluated. It was determined that students experienced difficulties with concepts taught in FIRE 115 Hazardous Materials Awareness and Operations and as a result a change in faculty was implemented.

2015-2016 Program Outcome Results

Students passed all IFSAC certification exams with an average 71% pass rate which resulted in 64 IFSAC certifications being granted through the New Mexico Firefighter's Training Academy. In FIRE 120 Pump Ops Pumper, to improve student pass rates and align with the New Mexico Firefighter's Training Academy standards, the Emergency Vehicle Driver curriculum was removed from FIRE 120 to allow more concentration on the Pumps Ops course content. A FIRE 128 Emergency Vehicle Driver course was developed to provide the training removed from FIRE 120 and now serves as a prerequisite to FIRE 120.

2014-2015 Program Outcome Results

Students passed all IFSAC certification exams with an average 83% pass rate which resulted in 131 IFSAC certifications being granted through the New Mexico Firefighter's Training Academy.