

## **Building Construction Technology Program Outcomes**

Upon successful completion of the Building Construction Technology Program students will be able to:

- Communicate effectively orally and through writing
- Demonstrate the ability to interpret information and instructions
- Work effectively as a team
- Demonstrate an understanding of sustainable and alternative building practices (e.g., LEED/Green Building)
- Demonstrate how related industry theories apply to real world settings
- Investigate mechanical processes found in building trades
- Demonstrate an awareness of the environmental problems arising from conventional practices
- Create professional development plans
- Apply human relation skills to project management role
- Describe how to measure personnel and individual improvement
- Demonstrate effectively leadership skills through the use of available resources
- Define cost control and identify the purpose of a control system
- Determine basic project scheduling terms and inputs
- Identify and resolve ethical workplace issues
- Describe the responsibilities of safety related to the construction industry
- Apply national and local building codes
- Estimate quantities of materials
- Demonstrate ability to construct a basic building from the ground up
- Site layout excavation
- Site preparation for concrete, framing, roofing, rough-ins, thermal and moisture protection, exterior finishing, and interior finishing
- Demonstrate an understanding of construction math
- Identify various types of building materials and their uses
- Identify and use hand and power tools commonly used by carpenters
- Read and interpret plans included in a set of blueprints