FIRE SCIENCE ASSOCIATE OF SCIENCE

The Fire Science Associate of Science program prepares students for a career in fire prevention and protection. Graduates will be eligible for employment in entry-level positions including, but not limited to, firefighter, fire officer, fire investigator, and Emergency Medical Technician.

Required Courses - Major:		**Units**
FSC 111	Fire Protection Organization	3
FSC 112	Fire Behavior & Combustion	3
FSC 113	Fire Protection Equipment & Systems	3
FSC 114	Building Construction for Fire Safety	3
FSC 115	Hazardous Materials Response for Public Safety	3
HLH 135*	Emergency Medical Technician	0-7

**Current EMT I license can be substituted for this required course.*

Plus 9 additional units selected from the following:		**Units**
FSC 50	Training Instructor IA – Cognitive Lesson Delivery	2.5
FSC 51	Training Instructor IB – Psychomotor Lesson Delivery	2.5
FSC 52	Fire Prevention I – Fire and Life Safety Inspections for the Company Officer	2.5
FSC 53	Fire Prevention IB/Code Enforcement	2
FSC 54	Fire Management I – Management/Supervision for the Company Officer	2.5
FSC 59	Fire Investigation I	2
FSC 65	Incident Command System (ICS) 300	1.5
FSC 68	Wildland Firefighting	7.5
FSC 70	Company Officer 2B – General Administrative Functions	1.5
FSC 71	Company Officer 2C – Fire Inspections and Investigations	2.5
FSC 72	Company Officer 2D – All-Risk Command Operations	2.5
FSC 73	Company Officer 2E – Wildland Incident Operations for Company	2.5
FSC 196	FSC-Occupational Work Experience Education	1 - 8

Total Major Units	**24 - 31**
Total Degree Units	**60**

Program Level Student Learning Outcomes:

1. Analyze, appraise and evaluate fire and emergency incidents and identify components of emergency management and firefighter safety.
2. Demonstrate comprehension of laws, regulations, codes and standards that influence fire department operations, and identify regulatory and advisory organizations that create and mandate them, especially in the areas of fire prevention, building codes and ordinances, and firefighter health and safety.
3. Analyze the causes of fire, determine extinguishing agents and methods differentiate the stages of the fire and fire development, and compare methods of heat transfer.
4. Identify and describe common types of building construction and conditions associated with structural collapse and freighter safety.
5. Differentiate between fire detection and fire suppression systems.