

FIRE SCIENCE TECHNOLOGY

Associate in Applied Science Degree

(Christanna and John H. Daniel Campuses)

Purpose: The Associate in Applied Science (A.A.S.) degree program in Fire Science Technology (FST) is designed to provide a broad-based knowledge of current and future advances in the Fire Science Technology field. It will prepare students for an exciting position in the fire protection field as a volunteer or career member, while enhancing career hiring and advancement opportunities for existing career personnel.

Program Goals: This program is designed to qualify students for securing a job in any of the multiple opportunities that exist within the fire service profession. Additionally, many firefighters will need this degree to position themselves for advancement in the fire protection service or related occupations. The program also provides knowledge of many fire protection fundamentals that are critical in the development of community volunteer fire and rescue personnel.

Occupational Objectives: Personal development of volunteer or career fire service personnel for positions as a firefighter, fire officer, fire protection specialist, fire/emergency service instructor,

fire or building inspector, fire/arson investigator, rescue technician, emergency medical service provider, hazardous materials technician, emergency manager, occupational safety and risk management, fire insurance appraiser, fire equipment sales representative or other related positions.

Admission Requirements: Entry into the Fire Science Technology program requires the general college admission process.

Program Description: This associate degree program is designed to provide the knowledge and skills needed for professional development in the fire and emergency services community. Students who enter the Fire Science Technology program should interview with the FST program advisor prior to or during their first semester to map their individual pathway for study in the Fire Science Technology program.

Requirements:

There are no physical job requirements such as height, weight, eyesight, and physical dexterity to enter this college program. However, students should understand that there may be some requirements such as these to be eligible for employment in many fire/rescue service agencies or in joining local volunteer fire/rescue departments.

Course Number	Course Title	Lecture Hours	Lab Hours	Course Credits
FIRST SEMESTER				
SDV 100	College Success Skills/Orientation	1	0	1
ENG 111	College Composition I	3	0	3
	OR			
ENG 137	Communication Processes I			
FST 100	Principles of Emergency Services	3	0	3
ITE 115	Intro to Computer Applications & Concepts	3	0	3
FST 110	Fire Behavior and Combustion	3	0	3
MTH 120	Introduction to Mathematics ¹	3	0	3
	Total	16	0	16

Course Number	Course Title	Lecture Hours	Lab Hours	Course Credits
SECOND SEMESTER				
ENG 112	College Composition II ² OR	3	0	3
ENG 115	Technical Writing OR			
ENG 138	Communication Processes II			
FST 112	Hazardous Materials Chemistry	3	0	3
FST 115	Fire Prevention	3	0	3
FST 120	Occupational Safety & Health for the Fire Service	3	0	3
— —	Social Science Elective ³	3	0	3
— —	Health and Wellness Elective ⁴	2-3	0	2-3
Total		17-18	0	17-18

THIRD SEMESTER

FST 205	Fire Hydraulics and Distribution System	3	0	3
FST 220	Building Construction	3	0	3
FST 240	Fire Administration	3	0	3
SPD 100	Principles of Public Speaking OR	3	0	3
FST 135	Fire Instructor I			
— —	Lab Science Elective ⁵	3	3	4
— —	Humanities/Fine Arts Elective	3	0	3
Total		18	3	19

FOURTH SEMESTER

FST 210	Fire Service and the Law	3	0	3
FST 215	Fire Protection Systems	3	0	3
FST 235	Strategy and Tactics	3	0	3
FST 245	Fire and Risk Analysis	3	0	3
— —	Social Science Elective ³	3	0	3
Total		15	0	15

Total Credits for A.A.S. Degree in Fire Science Technology..... 67-68

Notes:

- ¹Any 100 level math course will fulfill this requirement. However, MTH 120 is not a transferable math. For students who plan to transfer to a four-year institution, MTH 151, 163, or 170 is recommended.
- ²For students who plan to transfer to a four-year institution, ENG 112 is recommended.
- ³Psychology and Sociology are recommended. For students who plan to transfer, the student should select social science courses that will satisfy the requirements of the four-year institution that they plan to attend.
- ⁴Two credits of health (HLT) or physical education (PED) are required for all students. Veterans will be awarded HLT/PED credit based on military service. EMS 111 and 112 satisfy this general education requirement. A valid EMT certification will also be given credit for EMS 112 when all other curriculum requirements have been met.
- ⁵This course, which must include a laboratory, may be selected from biology, chemistry, or physics.

