

## **FIRE SCIENCE TECHNOLOGY PROGRAM (FST) ASSOCIATE IN APPLIED SCIENCE DEGREE**

This curriculum educates students who seek a career as a firefighter and/or fire administrator. It serves students with no previous experience; those who may be presently employed; those seeking advancement in the fire service; or wanting to transfer to four-year college/university to obtain a Bachelor's Degree in Fire Administration. Students will learn about fire behavior characteristics, how to properly handle hazardous materials incidents, the extinguishment of various types of fires, proper instruction and training of fellow firefighters, leading and managing of fire companies with knowledge in tactical and strategic considerations during emergency incidents, as well as managing various operational aspects and organizations within the fire department.

### **PROGRAM OUTCOMES:**

1. Students will be able to explain the basic theories and fundamentals of how and why fires start, spread, and are controlled.
2. Students will be able to identify and analyze the components of building construction related to fire safety.
3. Students will be able to explain basic responsibilities of company officers.
4. Students will be able to explain the basic philosophy, organization, and operation of fire prevention programs.
5. Student will be able to apply the theory and principles for the use of water in fire suppression activities.

## EDUCATIONAL PROGRAMS

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<b>FIRST SEMESTER</b>		<b>CREDIT HOURS</b>
FIR	100	Principles of Emergency Services..... 3
FIR	112	Fire Prevention ..... 3
ENG	101	Rhetoric I ..... 3
MAT	102	General Education Mathematics ..... 4
PSY	101	Introduction to Psychology ..... 3
		Total 16

<b>SECOND SEMESTER</b>		
FIR	120	Hazardous Materials..... 3
FIR	150	Introduction to Fire & Emergency Service Admin..... 3
SOC	100	Introduction to Sociology ..... 3
ENG	102	Rhetoric II ..... 3
or		
SPE	101	Principles of Public Speaking
PHI	126	Introduction to Ethics..... 3
or		
PHI	180	Social Ethics
		Total 15

<b>THIRD SEMESTER</b>		
FIR	240	Building Construction for Fire Protection..... 3
		General Education Requirements* ..... 3
FIR		Elective ..... 3
FIR		Elective ..... 3
FIR		Elective ..... 3
		Total 15

<b>FOURTH SEMESTER</b>		
FIR	270	Fire Behavior and Combustion..... 3
PEH	102	First Aid..... 2
FIR		Elective ..... 3
FIR		Elective ..... 3
FIR		Elective ..... 3
FIR		Elective ..... 3
		Total 17
		Overall Total 63

## 2018-2019 CATALOG

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### FIR Electives (3 credits each)

FIR 132**	Tactics and Strategy I FIR 145**
Instructor I	
FIR 170	Principles of Fire and Emergency Services Safety and Survival
FIR 180	Fire Investigation I
FIR 185**	Fire Department Leadership I
FIR 195**	Fire Department Leadership II
FIR 230	Fire Protection Systems
FIR 235**	Tactics and Strategy II
FIR 245**	Instructor II
FIR 250	Fire Protection Hydraulics & Water Supply FIR 280
Fire Investigation II	
FIR 285**	Fire Department Leadership III
FIR 295**	Fire Department Leadership IV

### NOTES:

\* Students must select a minimum 3 credit hour general education course in the area of Science and Mathematics. Students are encouraged to consult with an advisor about the availability and scheduling of these courses.

\*\* Students interested in taking these courses must be employed with a Fire Department or have permission of Instructor.

Students must complete all FIR courses with a minimum grade of "C".