

FIRE SCIENCE - ASSOCIATE IN SCIENCE

Plan Code: 2805

Students are educated and trained in the technical fields relating to fire and safety practices. This program also provides partial lower division preparation for the baccalaureate degree in this field. This Associate Degree will prepare students for entry to a fire academy and for career advancement for those already employed in a fire-related industry.

Program Student Learning Outcomes

- Demonstrate the ability to attain the Institutional Student Learning Outcomes (ISLOs).
- Explore the history, development, structure, and functions of the American fire service.
- Analyze, interpret, and evaluate prevention/protection/fire-fighting theories, policies, practices, and procedures to develop strategies to prevent, control, and fight fires.

Program Requirements

This degree requires the completion of General Education coursework plus the following:

Code Number	Course Title	Units
REQUIRED COURSES		
FIRE 1	Fire Protection Organization	3
FIRE 2	Fire Prevention Technology	3
FIRE 3	Fire Protection Equipment and Systems	3
FIRE 4	Building Construction	3
FIRE 5	Fire Behavior and Combustion	3
Subtotal Units		15
IN ADDITION, complete NINE (9) units from the following:		
EMT 251	Emergency Medical Technician (4)	
EMT 251L	Emergency Medical Technician Laboratory (2)	
FIRE 53	Fire Hydraulics (3)	
FIRE 54	Hazardous Materials 1 (3)	
FIRE 57	Introduction to Fire Tactics & Strategy (3)	
FIRE 58	Intro to Fire Company Administration (3)	
FIRE 61	Rescue Practices (3)	
FIRE 62	Fire Apparatus and Equipment (3)	
FIRE 64	Hazardous Materials 2 (3)	
FIRE 65	Fundamentals of Fire Safety (3)	
FIRE 240	Firefighter I Physical Agility (0.5)	
PUBAD 1	Introduction to Public Administration (3)	
Subtotal Units		9
Required Subtotal		24
Complete one of the following: ¹		19-39
LBCC General Education (Plan A) (https://lbcc-public.courseleaf.com/academic-requirements/general-education-transfer-degree-certificate-requirements/general-education-plans/plan-a/)		

CSU GE Breadth (Plan B) (<https://lbcc-public.courseleaf.com/academic-requirements/general-education-transfer-degree-certificate-requirements/general-education-plans/plan-b/>)

IGETC Pattern (Plan C) (<https://lbcc-public.courseleaf.com/academic-requirements/general-education-transfer-degree-certificate-requirements/general-education-plans/plan-c/>)

Electives (as needed to reach 60 degree-applicable units) ²

Minimum Degree Total 60

¹ Units for the major may be double-counted for LBCC GE, CSU GE, or IGETC; see counselor for limitations.

² Elective units from course(s) numbered 1-599, if needed, to reach 60 degree-applicable units.

FIRE SCIENCE - CERTIFICATE OF ACHIEVEMENT

Plan Code: 3805

This Certificate of Achievement will prepare students for entry to a fire academy and for an entry-level position in private and public fire-related occupations.

Program Student Learning Outcomes

- Demonstrate an understanding and ability to recognize and apply preventive and proactive measures in fire protection.

Program Requirements

Code Number	Course Title	Units
REQUIRED COURSES		
FIRE 1	Fire Protection Organization	3
FIRE 2	Fire Prevention Technology	3
FIRE 3	Fire Protection Equipment and Systems	3
FIRE 4	Building Construction	3
FIRE 5	Fire Behavior and Combustion	3
Subtotal Units		15
IN ADDITION, complete NINE (9) units from the following:		
EMT 251	Emergency Medical Technician (4)	
EMT 251L	Emergency Medical Technician Laboratory (2)	
FIRE 53	Fire Hydraulics (3)	
FIRE 54	Hazardous Materials 1 (3)	
FIRE 57	Introduction to Fire Tactics & Strategy (3)	
FIRE 58	Intro to Fire Company Administration (3)	
FIRE 61	Rescue Practices (3)	
FIRE 62	Fire Apparatus and Equipment (3)	
FIRE 64	Hazardous Materials 2 (3)	
FIRE 65	Fundamentals of Fire Safety (3)	
FIRE 240	Firefighter I Physical Agility (0.5)	
PUBAD 1	Introduction to Public Administration (3)	
Subtotal Units		9
Total Units		24