

Associate of Science in Fire Science

The Associate of Science degree in Fire Science provides you with scientific knowledge of fire behavior, prevention, suppression, and equipment. In addition to learning how and why fires start, spread, and are controlled, you'll examine the history and philosophy of fire prevention bureaus, use of fire codes, and identification and correction of fire hazards. This online associate degree provides you with the academic courses needed to support your advancement in the field, in careers such as a firefighter, fire inspector, arson investigator, or related public safety occupations.

The mission of the Associate in Fire Science is to prepare students at the introductory level for a career in fire protection services by introducing them to the concepts and theories involved in fire services beyond on-the-job training.

Degree Program Objectives

In addition to the institutional and degree level learning objectives, graduates of this program are expected to achieve these learning outcomes:

- Describe the historical development of fire protection and response from its origins through contemporary times.
- Identify and differentiate the various forms of fire, their fundamental scientific principles, and their associated mitigation and response strategies.
- Describe the legal and regulatory duties and responsibilities of the fire department as a public organization.

Degree at a Glance

Code	Title	Semester Hours
	General Education Requirements	30
	Major Required	21
	Final Program Requirements	3
	Elective Requirements	6
	Total Semester Hours	60

Degree Program Requirements

General Education Requirements (30 semester hours)

Code	Title	Semester Hours
Arts and Humanities (6 semester hours)¹		
Select 2 courses from the following:		6
ARAB100	Arabic I	
ARAB101	Arabic II	
ARTH200	Art Appreciation	
ARTH241	Film and Literature	
DSIN141	Image Enhancement using Adobe Photoshop	
FREN100	French I	
FREN101	French II	
GERM100	German I	
GERM101	German II	
JAPN100	Introduction to Japanese	
LITR215	Literature of American Encounters, Revolution, and Rebellion	
LITR218	From Abolition to #MeToo: Literature of the American Civil Rights Movement	
LITR222	Pivotal Figures in Early British Literature	
LITR225	British Literature from Wordsworth through the Wasteland	
LITR231	Leadership in World Literature: Antiquity to the Early Modern Period	
LITR233	Literature of the Newly Globalized World: The Individual's Struggle to Adapt	
MUSI200	Music Appreciation	
MUSI250	World Music and Cultures	
PHIL101	Introduction to Philosophy	
PHIL110	Critical Thinking	
PHIL200	Introduction to Ethics	
PHIL202	Philosophy of Science	
PORT100	Introduction to Brazilian Portuguese	
RELS201	Introduction to World Religions	
RUSS100	Russian I	
SPAN100	Spanish I	
SPAN101	Spanish II	
STEM270	Thinking and Acting Ethically	
Civics, Political and Social Sciences (6 semester hours)¹		
Select 2 courses from the following:		6
ANTH100	Introduction to Anthropology	

ANTH202	Introduction to Cultural Anthropology
CHFD220	Human Sexuality
COMM211	Social Media and Society
COMM240	Intercultural Communication
ECON101	Microeconomics
ECON102	Macroeconomics
EDUC200	Humane Education: A Global Interdisciplinary Perspective
GEOG101	Introduction to Geography
HOSP110	Practical Food Safety and Awareness
IRLS210	International Relations I
POLS210	American Government I
LITR212	Forgotten America—Under Represented Cultures in American Literature
LITR235	Four Points of the Compass: Culture and Society Around the World
POLS101	Introduction to Political Science
PSYC101	Introduction to Psychology
SOCI111	Introduction to Sociology
SOCI212	Social Problems
SOCI220	American Popular Culture
STEM280	Exploring Society and Cultures via Science Fiction

Communication: Writing, Oral, and Multimedia (9 semester hours)

COMM120	Information and Digital Literacy	3
ENGL110	Making Writing Relevant	3
ENGL115	Argumentation and Rhetoric	3

History (3 semester hours)

Select 1 course from the following: 3		
HIST101	American History to 1877	
HIST102	American History since 1877	
HIST111	World Civilization before 1650	
HIST112	World Civilization since 1650	
HIST121	Western Civilization before The Thirty Years War	
HIST122	Western Civilization since The Thirty Years War	
HIST221	African-American History before 1877	
HIST222	African-American History since 1877	
HIST223	History of the American Indian	
HIST270	History of Science	
STEM185	The History and Context of STEM	

Mathematics and Applied Reasoning (3 semester hours)

Select 1 course from the following: 3		
ACCT105	Accounting for Non Accounting Majors	
ENTD200	Fundamentals of Programming	
MATH110	College Algebra	

MATH111	College Trigonometry	
MATH120	Introduction to Statistics	
MATH125	Math for Liberal Arts Majors	
MATH225	Calculus	

Natural Sciences (3 semester hours)

Select 1 course from the following: 3		
BIOL180	Introduction to Biology	
BIOL181	Introduction to Human Anatomy and Physiology	
CHEM180	Introduction to Chemistry	
ERSC180	Introduction to Meteorology	
ERSC181	Introduction to Geology	
EVSP180	Introduction to Environmental Science	
PHYS180	Introduction to Physics	
SPST180	Introduction to Astronomy	
STEM100	Introduction to STEM Disciplines	

Total Semester Hours 30

¹ All literature courses require successful completion of ENGL101 - Proficiency in Writing or ENGL110 - Making Writing Relevant.

Major Required (21 semester hours)

Code	Title	Semester Hours
FSMT102	Fire Behavior and Combustion	3
FSMT188	Fire Prevention	3
FSMT201	Fire Protection Systems	3
FSMT210	Fundamentals of Fire Protection	3
FSMT281	Principles of Fire and Emergency Services Safety and Survival	3
FSMT287	Fire Protection in Building Construction	3
FSMT289	Fire Protection Hydraulics and Water Supply	3
Total Semester Hours		21

Final Program Requirements (3 semester hours)

Code	Title	Semester Hours
FSMT299	Sophomore Seminar in Fire Science ¹	3
Total Semester Hours		3

¹ To be taken as the last course before graduation.

Elective Requirements (6 semester hours)

Code	Title	Semester Hours
	Select any courses comprised of lower (100-200) level courses not already taken to fulfill the requirements listed above. Additional general education courses may be taken to fulfill elective requirements.	6
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	Total Semester Hours	6