

# 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.

The mission of the Associate in Fire Science program is to prepare students with introductory fire protection concepts and theories that complement on-the-job fire services 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
	<b>Total Semester Hours</b>	<b>60</b>

## Degree Program Requirements

### General Education Requirements (30 semester hours)

Code	Title	Semester Hours
	<b>Arts and Humanities (6 semester hours)<sup>1</sup></b>	
	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
<b>Civics, Political and Social Sciences (6 semester hours)<sup>1</sup></b>	
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

<sup>1</sup> 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 <sup>1</sup>	3
Total Semester Hours		3

<sup>1</sup> 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
Total Semester Hours		6