

# Bachelor of Science in Fire Science Management

The Bachelor of Science in Fire Science Management provides the principles, theory, and practices associated with leading-edge fire science and management issues associated with tactical fire operations, fire safety, firefighting leadership, and community fire issues, among others. This online bachelor's degree offers you a comprehensive education in fire behavior, suppression methods, protection, safety, and prevention, along with an emphasis on emergency and disaster management and response. This degree program is taught by highly credentialed and experienced instructors, many who hold key positions in government agencies or public safety organizations.

The mission of the Bachelor in Fire Science Management program is to help prepare students at the journeyman level by providing an in-depth understanding of the theories and best practices utilized in fire services, both prevention and protection, and enabling graduates to engage successfully with the community to achieve fire prevention goals and to become a leader in fire protection and response activities.

## Degree Program Objectives

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

- Analyze the current and historical strategies, practices, and policies that guide the modern field of fire science.
- Demonstrate the role of fire science personnel in leading, managing, and collaborating with colleagues, subordinates, constituents, and the community.
- Apply theory and practical methods to issues in fire science.
- Summarize the methods and resources needed to effectively manage fire services.
- Examine assessment and planning tactics to improve organization and community risk management for fire services.
- Describe strategies and methods to accomplish fire science operations.
- Differentiate the various practices involved in fire science, their fundamental scientific principles, and their associated mitigation and response strategies.
- Interpret the legal and regulatory duties and responsibilities that have an impact on the fire science field.

## Degree at a Glance

Code	Title	Semester Hours
	General Education Requirements	30
	Major Required	66
	Final Program Requirements	3
	Elective Requirements	21
	Total Semester Hours	120

## 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	
ARTH240	Survey of Photography	
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	
MUSI212	Jazz and Rock	
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
RELS101	Introduction to the Study of Religion
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)<sup>1</sup>**

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
LITR212	Forgotten America--Under Represented Cultures in American Literature
POLS101	Introduction to Political Science
POLS210	American Government I
PSYC101	Introduction to Psychology
RELS250	Death and Dying
RELS260	Race & Religion
RELS270	Hope and Resilience
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
MATH112	Pre-Calculus
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 (66 semester hours)**

Code	Title	Semester Hours
EDMG220	Emergency Planning	3
EDMG230	Emergency and Disaster Incident Command	3
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
FSMT288	Community Risk Reduction for the Fire and Emergency Services	3
FSMT289	Fire Protection Hydraulics and Water Supply	3
SSGS300	Research Design and Methods	3
EDMG330	Managerial Issues in Hazardous Materials	3
FSMT311	Fire Dynamics	3
FSMT320	Fire Protection Structure and System Design	3
FSMT321	Community Fire Mitigation and Protection	3
FSMT340	Incendiary Fire Analysis and Investigation	3
FSMT362	Fire Administration and Finance	3
FSMT405	Fire Safety and Risk Regulation	3
FSMT410	Fire Regulation, Policy, and Law	3
FSMT475	Applications of Fire Research	3
HRMT407	Human Resource Management	3
PSYC431	Psychology of Disaster	3
Total Semester Hours		66

### Final Program Requirements (3 semester hours)

Code	Title	Semester Hours
FSMT498	Senior Seminar in Fire Science (to be taken as the last course before graduation) <sup>1</sup>	3
Total Semester Hours		3

<sup>1</sup> Prerequisite: Senior Standing and completion of all major courses prior to enrollment.

### Elective Requirements (21 semester hours)

Code	Title	Semester Hours
Select any courses not already taken to fulfill the requirements listed above. Credits applied toward a minor or certificate in an unrelated field may be used to fulfill elective credit for the major.		21
Total Semester Hours		21