

FIRE SCIENCE, ASSOCIATE OF SCIENCE

The Associate of Science (AS) in Fire Science is designed to meet the needs of students who plan on pursuing a bachelor's or higher degree at a university. Fire departments and private agencies are increasingly expecting candidates for administrator and supervisor positions to have higher levels of education. Fire Science coursework is developed using model curriculum from the United States Fire Administration's Fire and Emergency Services Higher Education initiative. Students will study relevant topics including building construction, firefighting strategies and tactics, fire prevention, and fire protection systems.

This program is designed to transfer to Eastern Oregon University's Fire Services Administration program. For more information, please visit the program website.

GRADUATION REQUIREMENTS

Students must complete a minimum of 90 credit hours with a cumulative Grade Point Average (GPA) of 2.0 or better. All courses must be completed with a grade of 'C' or better. Twenty-four (24) credits must be completed at Southwestern before the degree is awarded.

Complete the graduation application process one term prior to the term of completion (e.g., spring term graduates must apply during winter term).

PROGRAM STUDENT LEARNING OUTCOMES

Upon successful completion of this program, the student will be able to:

- Apply critical-thinking and decision-making skills relevant to fire service scenarios.
- Apply core fire science knowledge to prevention, training, operational, and administrative situations relevant to the fire service.
- Demonstrate effective verbal and nonverbal communication in emergency and nonemergency situations including, but not limited to: communicating on the fireground, drafting administrative documents, handling disciplinary issues, completing incident reports, and conducting public education.
- Complete general education requirements in preparation to transfer to a four-year degree program.

PRE-PROGRAM COURSES

Students are required to take the following courses *prior to* the program courses, depending on students' college placement information. See advisor for details:

Code	Title	Credits
CIS90	Computer Basics (or demonstrate proficiency)	2
MTH95	Intermediate Algebra (or placement in higher math course)	4
WR90R	Academic Literacy (or placement in higher writing course)	4

PROGRAM GUIDE

Course	Title	Credits
First Year		
Fall		
FS100	Principles of Emergency Services	3
MTH105	Math in Society ¹	4
WR121	English Composition	3
or WR121H	or English Composition w/Honors	
Health, Wellness, and Fitness ²		3
Arts and Letters ³		3
Credits		16
Winter		
FS120	Building Const Related to Fire Svc	3
FS121	Fire Behavior and Combustion	3
MTH243	Intro to Probability and Statistics	4
WR122	English Composition	3
or WR122H	or English Composition w/Honors	
or WR227	or Report Writing	
Social Science ³		3
Credits		16
Spring		
FS125	Principles of Fire and Emergency S	4
Speech ⁵		3
Social Science ³		3
Arts and Letters ³		3
Credits		13
Second Year		
Fall		
FS200	Strategy and Tactics	3
FS205	Fire Prevention	3
FS231	Fire Protection Hydraulics and Wate	3
Social Science ³		3
Elective ⁴		3
Credits		15
Winter		
FS215	Legal Aspects of Emergency Services	3
FS220	Fire Protection Systems	3
Science, Mathematics, or Computer Science ³		4
Arts and Letters ³		3
Elective ⁴		3
Credits		16
Spring		
FS225	Prin of Fire & Emerg Service Admin	3
FS232	Occupational Safety and Health ES	3
Science, Mathematics, or Computer Science ³		4
Elective ⁴		4
Credits		14
Total Credits		90

¹ MTH105 or higher, excluding MTH211, may be substituted for MTH105.

- ² Health, Wellness, and Fitness courses include PE231, HE250, or any combination of PE185 courses totaling three (3) credits.
- ³ Select appropriate course in specific subject area from the course listed in Associate of Science General Education Requirements category.
- ⁴ Any course 100 level or higher may be used as an elective.
- ⁵ SP111, SP218, SP219 will satisfy this requirement.
- * All Honors courses may substitute for their equivalent requirements.