

FIRE SCIENCE, ASSOCIATE OF APPLIED SCIENCE

The Associate of Applied Science (AAS) Fire Science program includes the necessary general education and specialized fire and emergency services coursework to prepare students for careers in the fire service. Students will learn fundamental firefighting skills such as utilizing protective clothing and equipment, conducting search and rescue operations, advancing hoselines, and operating fire streams. Students will also be challenged with the academic aspect of firefighting in subjects including building construction, fire behavior, strategies and tactics, and fire prevention. With the knowledge, skills, and abilities gained from this program of study, students will be aptly prepared for a career in the fire service.

Students are required to complete internship credits as part of their degree plan. During this internship, students become affiliated with a fire department and gain valuable on-the-job experience while working with professional firefighters. Students have the opportunity to build a professional network, learn through practical experience (i.e. training, emergency response, etc.), and receive valuable leadership and guidance. It is highly recommended that students complete their internship credits locally, while in school to maximize the experience.

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:

- Demonstrate technical proficiency in fundamental firefighting skills.
- Apply critical-thinking and decision-making skills relevant to fire service scenarios.
- Demonstrate behaviors consistent with professional and employer expectations.

Math and writing placement are unique to each student and are determined during the admissions and intake advising process. Additional math or writing courses may be required prior to taking the math or writing program requirements in this degree.

PROGRAM GUIDE

Course	Title	Credits
First Year		
Fall		
FS100	Principles of Emergency Services	4
FS105	Firefighter Fundamentals I	2
MTH65	Algebra II ¹	4

Communication ³		4
Credits		14
Winter		
FS110	Firefighter Fundamentals II	2
FS120	Building Const Related to Fire Svc	3
FS121	Fire Behavior and Combustion	3
FS131	Wildland Firefighter Type 2	3
FS180	Internship: Fire Science ⁷	1
GS105	Physical Science ⁸	4
Credits		16
Spring		
FS115	Firefighter Fundamentals III	2
FS125	Principles of Fire and Emergency S	4
FS180	Internship: Fire Science ⁷	1
Health, Wellness, and Fitness ⁴		3
Human Relations ⁵		3
Specific Elective		3
Credits		16
Second Year		
Fall		
FS200	Strategy and Tactics	3
FS231	Fire Protection Hydraulics and Wate	3
FS280	CWE: Fire Science ⁷	1
WR121Z	Composition I ²	4
Specific Elective ⁶		4
Credits		15
Winter		
EMS151	Emergency Medical Technician Part A	6
FS220	Fire Protection Systems	3
FS280	CWE: Fire Science ⁷	1
Specific Elective ⁶		4
Credits		14
Spring		
BA120	Leadership Development ⁹	3
EMS152	Emergency Medical Technician Part B	6
FS205	Fire Prevention	3
FS215	Legal Aspects of Emergency Services	2
Specific Elective ⁶		2
Credits		16
Total Credits		91

¹ MTH95 or higher may be substituted for MTH65, excluding MTH81 and MTH211.

² A higher writing may be substituted excluding WR241, WR242, WR243, WR250.

³ COMM111Z, COMM219, COMM218Z recommended. May substitute COMM100Z or COMM220.

⁴ PE231 recommended. May substitute HE250 or three (3) credits of PE185 sport/activity courses.

⁵ Human Relations: PSY201Z, PSY202Z, BA120, BA285.

⁶ Specific Elective: Any FS, EMT, F, BA and/or CJ course not already required for the degree to fulfill the specific elective requirement.

⁷ Call 541-888-7405 to schedule with Internship Coordinator one month prior to term.

⁸ May substitute

CHEM110, BI231, CHEM221Z, PH201, ENGR211, STAT243Z, G246, GS104, GEOG265 or ECON201Z.

⁹ May substitute FS141, CJ203, BA285, COMM219.