

FIRE SCIENCE ASSOCIATE OF APPLIED SCIENCE DEGREE

LEARNING OUTCOMES:

FIRE SCIENCE: ASSOCIATE OF SCIENCE DEGREE

Role Descriptions: The Fire Science program is designed for persons intending to work (or currently working) as a community fire fighter assuming leadership responsibilities and roles.

Intended Learning Outcomes: Learning experiences in this program are designed to assist the student in realizing the following outcomes:

1. Perform the rescue and fire fighting functions in an emergency situation.
2. Maintain a sense of composure in an emergency situation.
3. Follow all safety guidelines and procedures to fully protect self and others in different conditions and work-related tasks.
4. Manage all aspects of successful day-to-day operations:
 - budget
 - equipment
 - records
 - human resources
5. Inspect premises and provide advice on compliance with safety codes and ordinances.
6. Plan, organize, and present educational activities that promote community awareness and safety.
7. Work effectively as a member of a fire fighting team and lead in specific department-related activities and operations.
8. Monitor one's own physical and mental health as it relates to job requirements, and engage in appropriate self-care actions.

Job Description:

This program offers training and education for those wanting a fire science career, and for career or volunteer firefighters seeking advancement. Some courses offered by Clatsop Community College allow students the option of completing lower division fire science requirements by independent study.

Firefighters protect communities and forests against loss of life, injury, or destruction of property by fire, and respond to medical, rescue, hazardous materials, and other emergencies. Firefighters work as a team with each person assigned special tasks. They operate and maintain fire stations, equipment, and apparatus. They may inspect buildings for fire hazards and investigate fire causes. They spend time educating the public about fire safety, speaking in schools and to citizen groups. Coursework is accredited by the Oregon Fire Standards and Accreditation Board.

Students and entry level firefighters may be required to satisfactorily complete specific agility and endurance requirements, including climbing ladders while carrying tools; wearing personal protective equipment and self-contained breathing apparatus; entering hazardous areas; handling hoses and specified equipment, as well as demonstrating physical strength and overall flexibility.

Employment Opportunities:

The application process for fire department jobs is very competitive. Applicants who complete a Fire Science degree have a greater chance of gaining employment.

Potential Earnings:

The average salary for a firefighter is \$3,600 per month. In rural areas firefighting may be a volunteer position.

YEAR ONE

Fire Science AAS Degree

FALL	EMT Basic - Part 1 EMT 151, 5 Cr.	Firefighter Law FRP 156, 1 Cr.	Firefighter Safety FRP 157, 1 Cr.	Fire Codes & Ordinances FRP 172, 3 Cr.	Fire Behavior & Combustion FRP 121, 4 Cr.	Electives 3 Cr.
	WINTER	EMT Basic - Part 2 EMT 152, 5 Cr.	Fire Protection Hydraulics & Water Supply FRP 158, 3 Cr.	Health & Fitness for Life HPE 295, 3 Cr.	English Composition ** WR 121, 3 Cr.	Technical Electives 4 Cr.
	SPRING	Hazardous Materials FRP 164, 3 Cr.	Building Construction for Fire Protection FRP 166, 3 Cr..	Intermediate Algebra * MTH 95, 5 Cr.	Fundamentals of Public Speaking SP 111, 3 Cr.	Electives 2 Cr.

YEAR TWO

Fire Science AAS Degree

FALL	Intro to Computer Info Systems CS 131, 4 Cr.	Word Processing or Procedures I OA201, 3 Cr.	Intro to Integrated Software MIC 145, 3 Cr.	Principles of Emergency Services FRP 101, 4 Cr.	Psychology of Human Relations PSY 101, 3 Cr.		
	WINTER	Firefighter Skills I FRP 151, 3 Cr.	Intro to Fire & Emergency Service Admin. FRP 169, 3 Cr.	Fire Protection Systems FRP 171, 3 Cr.	Social Science/ Humanities *** 3 Cr.		
	SPRING	Emergency Service Rescue FRP 168, 3 Cr.	Firefighting Strategy & Tactics FRP 170, 3 Cr.	Fire Prevention FRP 181, 3 Cr.	Coop. Work Experience - Fire Science FRP 280, 2 Cr.	CWE Seminar - Fire Science FRP 281, 1 Cr.	Technical Report Writing** WR 227, 3 Cr.

Technical Electives

Students must complete eight credits from the following list of courses. Courses which are used to satisfy program requirements may not be used as technical electives. Some listed courses may not be offered every year.

Course Number	Course Title	Credits
BI 231,232,233	Human Anatomy and Physiology	4 ea
CJ 203	Crisis Intervention	3
CPL 120	Credit for Prior Learning	3
EMT 165, 166	Emergency Medical Technician Intermediate-Part 1, 2	4 ea
EMT 170	Emergency Comm. & Pt Transportation	3
FRP 155	Instructional Methodology	2
FRP 174	Fire Investigation I	3
FRP 280	Cooperative Work Experience - Fire Science	3

Legend Notes:

Notes: The FRP courses will be offered on a rotating basis every two years. All FRP courses require instructor approval for registration.

* Minimum grade C or higher. Math courses numbered higher than MTH 95 may be substituted.

** Minimum grade C or higher.

*** Selected from Arts and Letters and Social Science lists, pages 36 & 37.