

FIRE SCIENCE

Fire Science

Associate of Applied Science

PROGRAM DESCRIPTION

The Fire Science program is designed to prepare students with both a theoretical understanding of fire science and the practical skills necessary to succeed. This program is a combination of classroom and online study.

PROGRAM OUTCOMES

Students who successfully complete the Associate of Applied Science degree in Fire Science will:

1. Demonstrate a basic knowledge of core content for each course completed and demonstrate practical applications based on the requirements set forth by NFPA 1001 "Standard on Fire Fighter Professional Qualifications"
2. Communicate effectively using appropriate:
 - Active Listening Skills
 - Speaking Skills
 - Writing Skills
3. Demonstrate adequate problem solving and critical thinking skills

CAREER CONSIDERATIONS

The Fire Science program prepares students for entry level jobs and future careers in firefighting, fire prevention, and fire education.

PROGRAM COURSE REQUIREMENTS

Year One

EMS 151	EMT Basic, part A	5
EMS 152	EMT Basic, part B	5
FRP 121A	Elementary Fire Science, Part A	4
FRP 121B	Elementary Fire Science, Part B	4
FRP 123	Hazardous Materials	4
FRP 132	Fire Pump Construction	3
FRP 135	Hazardous Materials Chemistry	2
FRP 230	Fire Service Hydraulics	4
FRP 280	Cooperative Work Experience	2
MTH 95	Intermediate Algebra	4
SP 111	Fundamentals of Public Speaking	4
WR 121	Academic Composition	4
WR 227	Technical Writing	4
*Approved Electives		6

Year Two

ES 101	Principles of Emergency Services	3
ES 103	OSHA for Emergency Services	2
ES 107	Legal Aspects	2
ES 109	Principles of Fire & EMS	3
ES 113	Rescue Practices	3

FRP 101	Firefighter Safety and Survival	3
FRP 111	Building Construction	3
FRP 122	Fire Prevention	3
FRP 133	Natural Cover Fire Protection	3
FRP 159	Fire Behavior	3
FRP 202	Fire Protection Systems	3
FRP 212	Firefighting Investigation	3
FRP 213	Firefighting Tactics and Strategies	3
FRP 280	Cooperative Work Experience	4
PSY 101	Psychology of Human Relations	3
WR 227	Technical Writing	4
*Approved Electives		8

*Please see an academic advisor or program website for the full list of approved electives.

Grade of C or better must be attained in all courses or courses must be retaken.

Total Credits (minimum) 96

PROGRAM ENTRANCE REQUIREMENTS

Academic Entrance Requirement

- Minimal requirement: Computer with broadband internet connectivity; Windows 7 or newer OR MACOS 10.6 or newer. Video viewing and Zoom conferencing may be held at the discretion of the faculty.
- Be a U.S. citizen
- Pass a criminal background check. Students with a criminal record are strongly urged to research employability before entering the fire science program. Not have been convicted by any state or federal government of a crime, the punishment for which could have been imprisonment in a federal or state prison
- Be of good moral character as determined by a thorough background investigation
- Be capable of passing a series of basic physical agility tests
- Demonstrate appropriate skills in: a. Hydraulics; b. Leadership; c. Candidate Physical Ability Training
- Work effectively as a member of a firefighting team and lead in specific fire department related business, operations, and Public Information activities
- Demonstrate skills necessary for continued lifelong learning for improving personal and professional skills
- Demonstrate the cognitive and psychomotor skills to complete Oregon's Department of Public Safety Standards and Training, Firefighter 1 Task Book and approved Firefighter's 1 Skills Evaluation Sheets in addition to National Fire Protection Association, Standard on Fire Fighter Professional Qualification

Recommended:

- Students with a criminal record are strongly urged to research employability before entering the fire science program.