FIRE SCIENCE, ASSOCIATE OF APPLIED SCIENCE

Program Description

The fire science program will provide students with quality cognitive and psychomotor skills that will help prepare them to be a firefighter.

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

Course	Title	Credits
First Year		
First Term		
EMS 151	EMT Part 1	6
ES 101	Principles-Emergency Services	3
FRP 121A	Elementary Fire Science Part 1	4
FRP 123	Hazardous Materials	4
	Credits	**17**
Second Term		
EMS 152	EMT Part 2	6
FRP 121B	Elementary Fire Science Part 2	4
FRP 133	Natural Cover Fire Protection	3
FRP 230	Fire Service Hydraulics	4
	Credits	**17**
Third Term		
FRP 132	Fire Pump Const-Operation [1]	3
FRP 280	Fire Related Skills	1
MTH 102	Math for the Trades (or higher)	4
WR 121Z	Composition I	4
	Credits	**12**
Fourth Term		
CH 104	Intro to Chemistry I	4
COM 218Z or PSY 101	Interpersonal Communication or Psychology of Human Relations	3-4
FRP 280	Fire Related Skills	1
	Credits	**8-9**
Second Year		
First Term		
FRP 111	Bldg Constr-Fire Suppression	3
FRP 122	Fundamentals Fire Protection	3
FRP 159	Fire Behavior and Combustion	3
FRP 280	Fire Related Skills	1
HPE 295	Wellness-Hlth Assess	3
	Credits	**13**
Second Term		
ES 103	Occupational Safety-Health	2
FRP 101	FF Safety and Survival	3
FRP 202	Fire Protection Systems	3
FRP 213	FF Tactics and Strategy [1]	3
FRP 280	Fire Related Skills	1
	Credits	**12**
Third Term		
ES 107	Legal Aspects-Emergency Svcs	2
ES 109	Principles of FESA	3
ES 113	Emergency Medical Svcs Rescue	3
FRP 212	Fire Investigation	3
FRP 280	Fire Related Skills	2
	Credits	**13**
	Total Minimum Credits	**92-93**

[1] Both FRP 132 and 213 can be taken without the pre-req if instructor permission is granted

[2] MTH 095 or higher but recommended MTH 104 or higher

Advising Notes

- A grade of C or better must be attained in all courses or courses must be retaken
- There are no prerequisite classes to enter the fire science program. Please see an advisor for more details

Program Entrance Requirements

- 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.
- 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 the National Fire Protection Association, Standard on Fire Fighter Professional Qualification