FIRE PROTECTION TECHNOLOGY

# FIRE PROTECTION TECHNOLOGY

pcc.edu/programs/fire-protection

## CAREER AND PROGRAM DESCRIPTION

PCC's Fire Protection Technology Program (FPT) is designed for both prospective firefighters and those currently working in the field. The FPT emphasizes and specializes in working with individuals who are entering the fire service and those who wish to upgrade their structural firefighting and other emergency response skills. Students are taught by industry experts and get hands-on experience with the tools of the trade. PCC offers both an Associate of Applied Science Degree and a one year Career Pathway Certificate for fire science students.

The FPT program comprises courses recommended by the National Fire Academy's Fire and Emergency Services Higher Education (FESHE) program. Students will have the opportunity to receive International Fire Service Accreditation Congress (IFSAC) certification in specific categories.

The FPT Career Pathway Certificate is a 34-credit program that prepares students for entry level positions in the fire industry with the following certificates: Fire Fighter I & II, Hazardous Materials First Responder: Awareness and Operations, Wildland Fire Fighter, and Emergency Medical Technician. Students will also be eligible to begin a six month internship with partnering fire agencies to gain valuable work experience as functioning members of an engine company.

The Associate of Applied Science degree in FPT is based on the National Fire Protection Association (NFPA) Fire Officer I and Fire Officer II professional qualifications and is accredited by IFSAC. It includes core courses to provide a broad in-depth study of the science and technical aspects, organizational structures, and policies and procedures related to the fire service. Other topics that are stressed as part of the contemporary fire officer education are leadership concepts, human resource management, cultural diversity, and customer service. The degree also contains general education courses focusing on written and verbal communications, human behavior, ethics, and human relations, along with math and science skills. The AAS degree will further develop leadership skills in preparation for a career in the fire service and obtain required prerequisites for the Bachelor of Fire Service Administration degree from Eastern Oregon University.

## DEGREES AND CERTIFICATES OFFERED

### ASSOCIATE OF APPLIED SCIENCE DEGREE

Fire Protection Technology

### LESS THAN ONE-YEAR: CAREER PATHWAY CERTIFICATE

Fire Protection Technology

### Academic Prerequisites

- Attendance at the Fire Academy orientation class is mandatory. No Exceptions. Students who miss the orientation class will be dropped from the roster by the department.
- MTH 20, IRW 90 or (RD 80 and WR 90 ) or equivalent placement.
- Students entering the Fire Protection Technology AAS degree program need to have completed the Fire Protection Pre-Employment Certificate at PCC or have equivalent training and certification through a local fire agency and have met course prerequisite requirements of WR 115 or IRW 115 and MTH 60. The AAS in Fire Protection Technology is designed to meet specific fire service certification requirements including Emergency Service Instructor I, Fire Officer I, and Fire Officer II.

### Academic Requirements

- None

### Non-Academic Prerequisites

- Students intending to enroll in the Fire Academy Part I and Part II will be required to have a physician's release to use equipment designed to protect the respiratory system from the products of combustion and hazardous chemicals. It is recommended that students acquire a physician's release prior to committing to the program. This equipment includes, but is not limited to: self-contained breathing apparatus (SCBA), respirators and filter mask.
- Due to the unique responsibilities involved in the practical application of fire protection and emergency response during lab periods and cooperative education assignments, the Fire Protection Technology Department reserves the right to counsel and guide students who demonstrate unsuitable characteristics (unsafe or unethical behavior, or physical inability to perform standard job duties) into another area of study.
- Students with a health, physical or psychological problem that may affect or be affected by the use of protective breathing equipment should contact the department prior to entering the program.

### Non-Academic Requirements

- Criminal history background checks will be mandatory. Satisfactory background checks are needed to qualify for cooperative education and state certification as a fire fighter and EMT Basic. The cost for the criminal history background check is the responsibility of the student.
- Fire Protection Technology students should be aware that the following questions are asked on the National Registry EMT and/or the Oregon EMT Application:
  a. Do you or have you had within the past 10 years, any physical or mental condition that impairs, could impair, or has impaired your ability to perform the duties of an EMT? If you answer yes, explain whether your condition is controlled by medication or other treatment and how your condition treated or untreated, affects your ability to perform the duties of an EMT.
  b. Do you or have you used in the last 10 years, any drug or chemical substance for other than legitimate medical purposes that impairs or has impaired your ability to perform the duties of an EMT?
  c. Have you been counseled about, diagnosed with, or treated for, a dependency on alcohol or drugs within the last 10 years?
  d. Have you ever been arrested, charged with, or convicted of any misdemeanor or felony? (Minor traffic violations need not be reported.)
  e. Has an employer or supervising physician taken disciplinary action against you related to your duties as an EMT? (Discipline includes suspension, letter or reprimand, resignation in lieu of termination, a limitation or restriction of scope of practice or dismissal for cause.)
  f. Have you been named in a lawsuit alleging medical malpractice or misconduct related to providing medical care?
  g. Have you ever been disciplined, denied or revoked by the National Registry of EMTs or any health care certifying/licensing agency?
  h. Have you ever surrendered or resigned a health care license or certificate?
  i. Have you lived, worked or attended school outside of Oregon for 60 or more consecutive days in the last 5 years?

FIRE PROTECTION TECHNOLOGY

## FIRE PROTECTION TECHNOLOGY AAS DEGREE

Minimum 91 credits. Students must also meet Associate Degree Comprehensive Requirements and Associate of Applied Science Requirements. Students must complete a total of four courses of General Education. Some courses specified within the program may be used as General Education. A maximum of 24 Pass/No Pass credits are allowed in the Fire Protection Technology AAS Degree. In addition to required courses in the program of study, students must satisfy MTH 58/65 competency. Students should consult with program advisors for course planning.

### Fire Protection Degree Courses

| Code | Title | Credits |
|---|---|---|
| COMM 111 | Public Speaking (COMM111=COMM111Z) *,Z | 4 |
| COMM 218 | Interpersonal Communication (COMM214=COMM218=COMM218Z) *,Z | 4 |
| FP 121 | Fire Behavior and Combustion | 3 |
| FP 122 | Fundamentals of Fire Prevention | 3 |
| FP 130 | Fire Protection Hydraulics and Water Supply | 3 |
| FP 137 | Fire Protection Systems | 3 |
| FP 166 | Building Construction for Fire Protection | 3 |
| FP 205 | Management and Quality in the Fire Service | 3 |
| FP 212 | Fire Investigation (Cause Determination) | 3 |
| FP 214 | Occupational Safety & Health for the Fire Science | 3 |
| FP 240 | Emergency Services Instructor I | 3 |
| FP 246 | Firefighting Strategy & Tactics | 3 |
| FP 274 | Introduction to Fire and Emergency Administration | 3 |
| FP 275 | Community and Government Relations | 3 |
| FP 280A | Cooperative Education: Fire Protection | 3 |
| FP 291 | Fire Codes and Related Ordinances | 3 |
| MSD 117 | Customer Relations | 3 |
| PHL 202 | Ethics * | 4 |
| PSY 101 | Psychology and Human Relations * | 4 |
| SOC 213 | Diversity in the United States * | 4 |
| WR 227 | Technical Writing (WR227=WR227Z) Z | 4 |
| Fire Protection Degree Electives | | 16 |
| General Education: 2 courses | | |
| Total Credits | | 91 |

*
Could be used as General Education

Z
This course is part of Oregon Common Course Numbering. The following courses are equivalent:
COMM 111 and COMM 111Z
COMM 214, COMM 218, and COMM 218Z
WR 227 and WR 227Z

*
Could be used as General Education

Z
This course is part of Oregon Common Course Numbering. The following courses are equivalent:
COMM 111 and COMM 111Z
COMM 214, COMM 218, and COMM 218Z
WR 227 and WR 227Z

Fire Protection Degree Electives

| Code | Title | Credits |
|---|---|---|
| EMS 105 | EMT Part I | 6 |
| EMS 106 | EMT Part II | 6 |
| FP 101 | Principles of Emergency Services | 3 |
| FP 111 | Fire Academy Part 1 | 8 |
| FP 112 | Fire Academy Part 2 | 8 |
| FP 123 | Hazardous Materials Awareness and Operations | 3 |
| FP 133 | Wildland Firefighter | 3 |
| FP 201 | Introduction to Emergency Service Rescue | 4 |
| FP 280B | Cooperative Education | 3 |
| FP 289 | Emergency Service Lifetime Fitness and Conditioning | 3 |
| UAS 100 | Career Explorations and Intro to Unoccupied Aircraft Systems | 1 |
| UAS 101 | UAS Pilot Test Prep | 2 |
| UAS 102 | UAS Flight Operations | 2 |

## FIRE PROTECTION TECHNOLOGY CAREER PATHWAY CERTIFICATE

Minimum 34 credits. Students must meet all certificate requirements. The Fire Protection Certificate is a Career Pathway. All courses are contained within the Fire Protection Technology AAS Degree. All courses required for the certificate must be completed at PCC or through a recognized Dual Credit program.

### Fire Protection Technology Certificate Courses

| Code | Title | Credits |
|---|---|---|
| EMS 105 | EMT Part I | 6 |
| EMS 106 | EMT Part II | 6 |
| FP 101 | Principles of Emergency Services | 3 |
| FP 111 | Fire Academy Part 1 | 8 |
| FP 112 | Fire Academy Part 2 | 8 |
| FP 123 | Hazardous Materials Awareness and Operations | 3 |
| Total Credits | | 34 |