

Fire Protection Technology Programs

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The Fire Protection programs offer career training in Fire Prevention and Fire Suppression. Both degree programs include training and education for those entering the career field and for those already employed. The Fire Service Supervision and Management certificate is designed to prepare current firefighters for promotion to officer positions. Chemeketa has a well-equipped fire station and training center on the Salem campus and at the Emergency Services Regional Training Center in nearby Brooks, Oregon. Coursework is accredited by the Oregon Board on Public Safety Standards and Training and by the International Fire Service Accreditation Congress.

Classes in this program are offered in the traditional on-campus classroom setting for students just beginning their fire protection training, and by distance education for fire service professionals active in the field. Distance education may include earning college credit for prior learning such as local training and work experience, individualized instructional contracts, transfer credits from local schools, and independent study courses online or by correspondence. For information about distance education call 503.399.5163.

Program outcomes

Students completing the Fire Prevention degree will:

- Exhibit safety practices under general supervision to prevent the occurrence and severity of hostile fires, to mitigate the effect of fire on people, and to assist in the determination of the cause of such fires
- Demonstrate effective verbal and written communications skills to meet the needs of internal and external customers, resolve conflicts, and explain fire prevention concepts in a manner that places a high priority on customer satisfaction
- Exhibit the ability to collaborate with a diversity of colleagues in order to accomplish goals of the organization
- Demonstrate the ability to conduct risk reduction inspections through employing hazard identification, interpreting and applying codes and standards, and applying hazard abatement process
- Demonstrate the ability to conduct, coordinate, and complete basic fire cause and origin investigation and participate, under supervision, in the investigation of complex fire situations

Students completing the Fire Service Supervision and Management certificate will:

- Demonstrate skills and knowledge to function as a NFPA Fire Officer I and II
- Demonstrate effective verbal and written communications skills in both emergency and non-emergency situations
- Exhibit the ability to collaborate with a diversity of colleagues in order to accomplish goals of the organization
- Exhibit the ability to utilize human resources to accomplish assignments in accordance with safety plans and in an efficient manner and evaluating members' performance in the daily operations of a fire station and in emergency and non-emergency situations
- Demonstrate the ability to perform administrative functions and the implementation departmental policies and procedures at the unit level, according to job performance requirements

Students completing the Fire Suppression degree will:

- Exhibit safety practices as a response team member when engaged in training or emergency response activities
- Demonstrate effective verbal and written communications skills in both emergency and non-emergency situations
- Explain effective risk reduction activities through accurate hazard identification and public education activities.
- Demonstrate the ability to collaborate with a diversity of colleagues in order to accomplish the goals of the organization and successfully participate in the daily operations of a fire station
- Demonstrate skills and knowledge to function as an EMT Basic, firefighter I, driver and pumper operator

Getting started

The first step to entering this program is to take part in an assessment process, which includes taking the college's free placement test and meeting with the department staff. You may need to complete program entry requirements. Then, fire program faculty will help you develop an individualized program of study.

Fire Prevention Associate of Applied Science Degree

Graduates of the Fire Prevention program may be hired by public fire departments and industrial businesses as fire prevention specialists.

Our Cooperative Work Experience program allows you to apply your knowledge and skills while earning college credit for working in a state or local fire prevention bureau. With the approval of the program chair, you may enroll in FRP280B-L



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Cooperative Work Experience and earn college credit hours. For more information, look under Cooperative Work Experience in the catalog index.

In addition to tuition, estimated costs for students who complete the entire program listed below are books, \$2,263; class fees, \$534; universal fee, \$1,442; equipment and supplies, \$25. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

You may earn an associate of applied science degree by successfully completing the required 103 credit hours with a grade of "C" or better in all courses. For information call 503.399.6241.

| Course | Title | Credit Hours |
|---------------|---|--------------|
| Term 1 | | |
| BLD151 | Building Codes 1..... | 3 |
| FRP150 | Introduction to Fire Protection | 3 |
| | or | |
| ES172 | Introduction to Emergency Services | 4 |
| FRP260 | Fundamentals of Fire Prevention | 3 |
| FRP266 | Building Construction for Fire Suppression..... | 3 |
| MTH095 | Intermediate Algebra+ (or higher) | 4 |
| Term 2 | | |
| BLD152 | Building Codes 2..... | 3 |
| CIS101 | Introduction to Microcomputer Applications (or higher)..... | 3 |
| FRP172 | International Fire Codes..... | 3 |
| PH111 | Physical Science for Fire Science and Emergency Services (or higher)..... | 5 |
| WR121 | The College Essay+ (or higher) | 4 |
| Term 3 | | |
| BLD267 | Non-Structural Plan Review | 3 |
| CH110 | Foundations of General, Organic, and Biochemistry..... | 5 |
| COMM115 | Introduction to Intercultural Communication (or higher)..... | 4 |
| FRP171 | Fire Protection Systems and Extinguishers..... | 3 |
| WR227 | Technical Writing..... | 4 |
| Term 4 | | |
| FRP174 | Fire Investigation..... | 4 |
| FRP257 | Hazardous Materials for Inspectors | 3 |
| FRP280C | Cooperative Work Experience | 3 |
| PSY101 | Psychology of Human Relations+ (or higher) | 4 |
| | Fire Prevention elective* | 3 |
| Term 5 | | |
| FRP173 | Law for Emergency Services..... | 3 |
| FRP281 | Fire Prevention Inspection..... | 3 |
| FRP286 | Advanced Detection and Protection Systems..... | 3 |
| FRP280C | Cooperative Work Experience | 3 |
| FRP288 | Fire Prevention Education Programs..... | 3 |
| Term 6 | | |
| FRP154 | Water Supply Operations..... | 3 |
| FRP179 | Wildland Urban Interface | 3 |
| FRP277 | NFPA Fire Instructor 1 | 3 |
| FRP280C | Cooperative Work Experience | 3 |
| FRP282 | Juvenile Fire Setters Intervention..... | 3 |
| FRP284 | Public Information for the Fire Services | 3 |

+Meets related instruction requirement, see page 42. For subject areas, see page 54.

***Fire Prevention electives (select 3 credits):**

| | | |
|--------|---|---|
| CJ210 | Introduction to Criminal Investigations 1: Crimes vs. Persons | 3 |
| FRP157 | Hazardous Materials Operations..... | 3 |
| FRP159 | Fire Behavior and Combustion..... | 3 |
| FRP160 | Incident Safety Officer..... | 1 |
| FRP161 | Fire Management Practices..... | 1 |
| FRP162 | Managing Fire Personnel | 1 |
| FRP163 | Planning Fire Protection | 1 |
| FRP164 | Fire Department Budgets..... | 1 |
| FRP165 | Public Relations, Public Information, and Public Education | 1 |
| FRP169 | Fire Department Leadership | 3 |
| FRP170 | Fire Fighting Tactics and Strategies | 3 |
| FRP272 | International Fire Codes 2..... | 3 |
| FRP278 | NFPA Fire Instructor 2 | 3 |

Fire Service Supervision and Management Certificate of Completion

The Fire Service Supervision and Management program can help you prepare for promotion to officer positions; or if you are already a fire officer, you can gain valuable new skills and knowledge. The certificate program meets or exceeds NFPA and Oregon Standards for Fire Officer 1 and 2. To be admitted to the certificate program, you must be certified as Firefighter 1 (or equivalent) and actively be pursuing Firefighter 2 or have an associate degree in fire protection or possess professional certificates and have experience or equivalent credentials in fire prevention, fire training, or public fire education.

To be admitted to this program, you must be interviewed by the program chair Bill Klein, 503.399.6240, and have your training, education, and experience evaluated. An individualized program of study will be developed for you.

In addition to tuition, estimated costs for students who complete the entire program listed below are books, \$1,219; class fees, \$80; universal fee, \$784; equipment and supplies, \$120. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

You may earn a certificate of completion by successfully completing the required 56 credit hours with a grade of "C" or better in all courses.

| Course | Title | Credit Hours |
|---------------|---|--------------|
| Term 1 | | |
| FRP169 | Fire Department Leadership | 3 |
| FRP173 | Law for Emergency Services..... | 3 |
| | or | |
| FRP166 | Firefighter's Law..... | 1 |
| FRP174 | Fire Investigation..... | 4 |
| FRP277 | NFPA Fire Instructor 1 | 3 |
| MTH095 | Intermediate Algebra+ (or higher) | 4 |
| | Communications elective*+ | 4 |
| | Human Relations elective**+ | 4 |

Term 2

| | | |
|--------|---|---|
| FRP154 | Water Supply Operations..... | 3 |
| FRP160 | Incident Safety Officer..... | 1 |
| FRP161 | Fire Management Practices..... | 1 |
| FRP162 | Managing Fire Personnel | 1 |
| FRP163 | Planning Fire Protection | 1 |
| FRP170 | Fire Fighting Tactics and Strategy | 3 |
| FRP266 | Building Construction for Fire Suppression..... | 3 |
| | Science elective*** | 4 |

Term 3

| | | |
|--------|--|---|
| FRP164 | Fire Department Budgets..... | 1 |
| FRP165 | Public Relations, Public Information, and Public Education | 1 |
| FRP172 | International Fire Codes..... | 3 |
| FRP259 | Major Emergency Strategy and Tactics | 3 |
| PS203 | State and Local Government | 4 |
| | Science elective*** | 4 |

+Meets related instruction requirement, see page 42. For subject areas, see page 54.

***Communications electives:**

| | | |
|-------|---|---|
| BA214 | Business Communications..... | 3 |
| WR088 | Introduction to Technical Writing 1 | 3 |
| WR089 | Introduction to Technical Writing 2 | 3 |
| WR115 | Introduction to Composition | 4 |
| WR121 | The College Essay | 4 |
| WR122 | Argument and Research..... | 4 |
| WR227 | Technical Writing | 4 |

****Human Relations electives:**

| | | |
|--------|---|---|
| PSY101 | Psychology of Human Relations (or higher) | 4 |
| SOC204 | The Sociological Perspective (or higher)..... | 4 |

*****Science electives:**

| | | |
|-------|--|---|
| CH110 | Foundations of General, Organic, and Biochemistry (or higher) | 5 |
| PH111 | Physical Science for Fire Science and Emergency Services (or higher)..... | 5 |
| | or Any combination of one Chemistry and one Physics course of at least four credit hours each, which include a lab component. | |

Fire Suppression Associate of Applied Science Degree

Most firefighters work for public fire departments. Chemeketa's program includes a variety of courses in writing, mathematics, and speech as well as technical fire protection courses. Each term, students take a Fire Incident Related Experience course, which focuses on developing required skills, attitudes, and work habits. On-campus fire suppression students work a 24-hour duty shift each week and respond to actual emergency incidents under the supervision of fire department officers.

The Fire Suppression degree program can be coordinated with the Emergency Medical Technician/Paramedic program so that both degrees can be earned in between nine and 11 terms. Dual-degree students are provided with an individualized sequence of courses that may vary depending on the term in which classes are begun. For information call 503.399.5163.

This program has special admission requirements and enrollment limits. Applications are accepted every nine months. For additional information, call 503.399.5163. The program operates year-round, including summer term.

In addition to tuition, estimated costs for students who complete the entire program listed below are books, \$2,472; class fees, \$203; universal fee, \$1,470; equipment and supplies, \$850. Contact the Financial Aid Office at 503.399.5018 to find out if you qualify for help with these costs.

You may earn an associate of applied science degree by successfully completing the required 106 credit hours with a grade of "C" or better in all courses.

| Course | Title | Credit Hours |
|---------------|--|--------------|
| Term 1 | | |
| EMT151 | Emergency Medical Technician, Part 1..... | 5 |
| FRP150 | Introduction to Fire Protection | 3 |
| | or | |
| ES172 | Introduction to Emergency Services | 4 |
| FRP151 | Fire Incident Related Experience 1 | 3 |
| FRP157 | Hazardous Materials Operations..... | 3 |
| WR121 | The College Essay+ (or higher)..... | 4 |
| Term 2 | | |
| EMT152B | Emergency Medical Technician, Part 2..... | 5 |
| FRP152 | Fire Incident Related Experience 2 | 3 |
| FRP159 | Fire Behavior and Combustion..... | 3 |
| FRP266 | Building Construction for Fire Suppression..... | 3 |
| MTH095 | Intermediate Algebra+ (or higher) | 4 |
| Term 3 | | |
| CH110 | Foundations of General, Organic, and Biochemistry | 5 |
| FRP153 | Fire Incident Related Experience 3 | 3 |
| FRP154 | Water Supply Operations..... | 3 |
| FRP158 | Fire Pump Construction and Operation | 3 |
| FRP169 | Fire Department Leadership | 3 |
| | Fire Suppression elective*..... | 3 |
| Term 4 | | |
| CIS101 | Introduction to Microcomputer Applications (or higher)..... | 3 |
| FRP260 | Fundamentals of Fire Prevention | 3 |
| FRP261 | Fire Incident Related Experience 4 | 3 |
| HPE295 | Health and Fitness for Life..... | 3 |
| SOC204 | The Sociological Perspective | 4 |
| | or | |
| SOC205 | United States Society | 4 |
| | or | |
| SOC206 | Social Problems..... | 4 |
| Term 5 | | |
| COMM115 | Introduction to Intercultural Communication (or higher)..... | 4 |
| FRP172 | International Fire Codes..... | 3 |
| FRP173 | Law for Emergency Services..... | 3 |
| FRP179 | Wildland Urban Interface | 3 |
| FRP256 | Emergency Services Rescue Practices..... | 4 |
| FRP262 | Fire Incident Related Experience 5 | 3 |

Term 6

| | | |
|--------|--|---|
| FRP171 | Fire Protection Systems and Extinguishers..... | 3 |
| FRP263 | Fire Incident Related Experience 6 | 3 |
| PSY101 | Psychology of Human Relations+ (or higher) | 4 |
| WR227 | Technical Writing | 4 |

+Meets related instruction requirement, see page 42. For subject areas, see page 54.

***Fire Suppression electives:**

| | | |
|---------|---|---|
| BI231 | Human Anatomy and Physiology | 4 |
| BI232 | Human Anatomy and Physiology | 4 |
| BI233 | Human Anatomy and Physiology | 4 |
| BLD151 | Building Codes 1..... | 3 |
| BLD152 | Building Codes 2..... | 3 |
| EMT167A | Oregon Emergency Medical Technician Intermediate, Part 1 | 5 |
| EMT167B | Oregon Emergency Medical Technician Intermediate, Part 2..... | 5 |
| EMT175 | Introduction to Emergency Medical Services..... | 3 |
| EMT280F | Cooperative Work Experience | 6 |
| ES115 | Crisis Intervention..... | 3 |
| FRP160 | Incident Safety Officer..... | 1 |
| FRP161 | Fire Management Practices..... | 1 |
| FRP162 | Managing Fire Personnel | 1 |
| FRP163 | Planning Fire Protection | 1 |
| FRP164 | Fire Department Budgets..... | 1 |
| FRP165 | Public Relations, Public Information, and Public Education | 1 |
| FRP166 | Firefighter's Law..... | 1 |
| FRP170 | Fire Fighting Tactics and Strategies | 3 |
| FRP174 | Fire Investigation..... | 4 |
| FRP259 | Major Emergency Strategy and Tactics | 3 |
| FRP277 | NFPA Fire Instructor 1 | 3 |
| FRP278 | NFPA Fire Instructor 2 | 3 |
| FRP286 | Advanced Detection and Protection Systems..... | 3 |
| HE262 | Cardiopulmonary Resuscitation Instruction..... | 2 |
| HM120 | Medical Terminology 1..... | 3 |