

# 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 should be able to:**

- 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 should be able to:**

- 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 should be able to:**

- 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



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approval of the program chair, you may enroll in FRP280B-L 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
<b>Term 1</b>		
BLD151	Building Codes 1.....	3
FRP150	Introduction to Fire Protection .....	3
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
<b>Term 2</b>		
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
<b>Term 3</b>		
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
<b>Term 4</b>		
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
<b>Term 5</b>		
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 50. For subject areas, see page 56.

**\*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
<b>Term 1</b>		
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
<b>Term 2</b>		
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
<b>Term 3</b>		
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 50. For subject areas, see page 56.

**\*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
	and	
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
<b>Term 1</b>		
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
<b>Term 2</b>		
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
<b>Term 3</b>		
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
<b>Term 4</b>		
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 50. For subject areas, see page 56.

**\*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