

# Fire Protection Technology Programs

[fire.chemeketa.edu](http://fire.chemeketa.edu)

The Fire Protection programs offer career training in Fire Suppression and Fire Prevention. Both programs include training and education for those entering the career field and for those already employed. 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.

Total required credit may vary due to three to four credit conversion. Chemeketa degree and certificate minimum requirements must be met.

## Program outcomes

### Students completing the Fire Suppression AAS will:

- Operate safely and effectively under general supervision as an integral member of an emergency response team and under close supervision when engaged in hazardous activities.
- Initiate, relay, and respond to verbal or written communications in both non-emergency and emergency situations.
- Demonstrate and explain the daily operations of a fire station.
- Conduct risk reduction activity through hazard identification and public education.
- Interact with others in a diverse workforce using formal and informal rules to accomplish organizational goals.
- Assist as a member of an advanced life support team to improve patient outcomes by performing basic life support procedures including infection control, CPR, bleeding control, and shock management.
- Drive and perform pumping operations including establishing a water supply and directing the flow of water through hose lines and appliances in appropriate volumes and pressures.

### Students completing the Fire Prevention AAS will:

- Operate safely and effectively 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.

- Use fire department communications equipment to initiate, relay, and respond to verbal or written communications.
- Conduct risk reduction inspections through employing hazard identification, interpreting and applying codes and standards, and applying hazard abatement process.
- Use appropriate media to educate a variety of audiences in risk reduction.
- Conduct, coordinate, and complete basic fire cause and origin investigation and participate, under supervision, in the investigation of complex fire situations.
- Interact formally and informally with others in a diverse workforce to accomplish organizational goals.
- Use communication skills and media 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.

## 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 pre-program courses. Then, fire program faculty will help you develop an individualized program of study.

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.

## Fire Suppression Associate of Applied Science

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.

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.



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Chemeketa Community College is an equal opportunity/affirmative action employer and educational institution. To request this publication in an alternative format, please call 503.399.5192.

In addition to tuition, estimated costs for students who complete the entire program listed below are books, \$2,248; class fees, \$203; universal fee, \$800; 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 105 credit hours with a grade of "C" or better in all courses.

Course	Title	Credit Hours
<b>Term 1</b>		
EMT151	Emergency Medical Technician Basic, 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
MTH095	Intermediate Algebra+ (or higher).....	4
<b>Term 2</b>		
CIS101	Introduction to Microcomputer Applications (or higher).....	3
EMT152B	Emergency Medical Technician Basic, Part 2.....	5
FRP152	Fire Incident Related Experience 2.....	3
FRP266	Building Construction for Fire Suppression.....	3
PH111	Physical Science for Fire Science and Emergency Services (or higher).....	5
<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 Dump Construction and Operation.....	3
FRP169	Fire Department Leadership.....	3
	Fire Suppression elective*.....	3
<b>Term 4</b>		
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
WR121	English Composition–Exposition+ (or higher).....	4
<b>Term 5</b>		
FRP172	International Fire Codes.....	3
FRP256	Fire Service Rescue Practices.....	4
FRP262	Fire Incident Related Experience 5.....	3
SP115	Introduction to Intercultural Communications.....	4
<b>Term 6</b>		
FRP171	Fire Protection Systems and Extinguishers.....	3
FRP179	Wildland Urban Interface.....	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 43.

### \*Fire Suppression electives:

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
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
BLD260	Fire Protection for Buildings.....	3
EMT167A	Emergency Medical Technician Intermediate, Part 1.....	5
EMT167B	Emergency Medical Technician Intermediate, Part 2.....	5
EMT175	Introduction to Emergency Medical Services.....	3
EMT280F	Cooperative Work Experience.....	6
FRP170	Fire Fighting Tactics and Strategies.....	3
FRP173	Law for Emergency Services.....	3
FRP174	Fire Investigation.....	4
FRP175	Crash/Rescue for Non-Commercial Aircraft.....	1
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.....	2
HM120	Medical Terminology 1.....	3

### Fire Prevention Associate of Applied Science

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 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, \$2058; class fees, \$534; universal fee, \$792; 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
	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
<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	English Composition–Exposition+ (or higher).....	4
<b>Term 3</b>		
BLD267	Non-Structural Plan Review.....	3
CH110	Foundations of General, Organic and Biochemistry.....	5
FRP171	Fire Protection Systems and Extinguishers.....	3
SP115	Introduction to Intercultural Communication.....	4
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
	or	
BLD260	Fire Protection for Buildings.....	3
FRP280C	Cooperative Work Experience.....	3
FRP288	Fire Prevention Education Programs.....	3
<b>Term 6</b>		
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 43.

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

BLD181A	Mechanical Codes 1.....	3
BLD260	Fire Protection for Buildings.....	3
CJ210	Introduction to Criminal Investigations.....	3
FRP157	Hazardous Materials Operations.....	3
FRP169	Fire Department Leadership.....	3
FRP170	Fire Fighting Tactics and Strategies.....	3
FRP272	International Fire Codes 2.....	3
FRP278	NFPA Fire Instructor 2.....	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

**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’s 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, \$1109; class fees, \$80; universal fee, \$424; 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

**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 43.

**\*Communications electives:**

BA214	Business Communications .....	3
COM051	Communication Skills 1 (or higher).....	3
WR115	Introduction to Composition (or higher).....	4
WR121	English Composition–Exposition (or higher) .....	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.	