

Fire Science

Holland code family: Doers

About the Program

The fire service is a highly dynamic profession that offers a variety of daily challenges to the professionals who work within it. The primary mission of the RCC Fire Science program is to prepare students for careers as firefighters. Students who complete the program will be prepared to meet the unique demands of a rewarding profession. The program prides itself on delivering the highest education available by following standards set by the National Fire Protection Association (NFPA) and the Fire Emergency Services Higher Education (FESHE). Fire Science program coursework is accredited by the Oregon Department of Public Safety Standards and Training.

Program Learning Outcomes

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. Program learning outcomes for fire science programs are:

Perform safe and effective fire suppression techniques and hazard mitigation utilizing tools and appliances under high levels of stress.

Perform an adequate patient assessment and formulate and implement a treatment plan for patients with a variety of medical and traumatic emergencies.

Implement self-care strategies and techniques to address the impact of stress and emotional trauma on emergency providers.

Demonstrate leadership, teamwork and decision making in the management of multiple personnel on emergency scenes.

Understand and follow workplace expectations regarding attendance, safety, conduct, and professionalism.

Describe and use defensive and safe driving techniques and the operation of emergency vehicles and fire pumps.

Demonstrate safe work practices in a variety of specific rescue situations including rope, water, wilderness, and confined space rescue.

Demonstrate the ability to conduct fire and life safety inspections and have an understanding of fire prevention principles.

Entry Requirements

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. In addition, students may also be required to enroll in classes that would increase their employability and success.

The Fire Science program advisor will work with each student to design an individualized sequence of instruction.

Students must be at least 17 years old to apply to the EMT course. Students must be a high school graduate or have a GED or equivalent for certification. In addition, students must meet the qualifications outlined by the Oregon Health Authority – EMS. Students are required to submit verification of certain immunizations and medical tests. Students will also be required to pass a drug screen and a criminal background investigation prior to their mandatory clinical time.

Advanced Standing

Coursework from accredited colleges and universities will be accepted in accordance with college registration policies and the Fire Science program coordinator's approval. In order to ensure that coursework is current, program courses over 10 years old must be reviewed and approved by the appropriate department chair before being accepted toward core requirements.

Graduation Requirements

Students must complete all courses in this program with a grade of "C" or better to receive their degrees. Certain required courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C" or better grade.

Prerequisites

Course No.	Course Title	Credits
CS/CIS	Approved 3-4 credit Computer Science or Computer Information Science class, CS120/CIS120 or above, or documented computer proficiency within the past ten years. ¹	0-4
MTH20	Pre-algebra or designated placement test score	0-4
WR115	Introduction to Expository Writing or designated placement test score	0-3
Total Prerequisite Credits		0-11



First Year Required Courses

Course No.	Course Title	Credits
First Term		
ES105	Introduction to Emergency Services	4
FRP251	Firefighter Level I ²	3
FRP251L	Firefighter Level I Lab ²	5
FRP256	Fire Behavior and Combustion	3
FRP261	Hazardous Materials First Responder Operations	1
		16
Second Term		
ES131	Emergency Services Technician Part I	4
ES131L	Emergency Services Technician Part I Lab	1
FRP233	Firefighter Safety and Survival	3
FRP252	Firefighter Level II	4
FRP262	Fundamentals of Fire Prevention	2
		15
Third Term		
ES132	EMT Part II	4
ES132L	EMT Part II Lab	1
ES205	Crisis Management	3
LIB127	Introduction to Academic Research	1
MTH63	Applied Algebra I or MTH60 Fundamentals of Algebra I or higher level math	4
SP111	Fundamentals of Public Speaking or SP218 Interpersonal Communication	4
		17
Total First Year Credits		48

Second Year Required Courses

Course No.	Course Title	Credits
Fourth Term		
ES171	Emergency Vehicle Operations	2
ES268	Emergency Service Rescue	3
ES295	Health and Fitness for Emergency Service Workers or HPE295 Health and Fitness for Life	3
FRP242	Introduction to Codes and Ordinances	3
WR121	English Composition I	4
—	Approved program elective ³	0-3
		15-18

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Fifth Term

FRP249	Fire Service Leadership	3
FRP258	Pumper Operator	3
FRP272	Fixed Systems and Extinguishers	3
FRP273	Fire Investigation	3
—	Approved program elective ³	<u>0-3</u>
		12-15

Sixth Term

ES280	Cooperative Work Experience/Fire Science	3
FRP259	Water Supply Operations	3
FRP264	Building Construction for Fire Protection	3
FRP274	Firefighting Strategy and Tactics	3
PSY101	Psychology of Human Relations or	
	BT101 Human Relations in Organizations	3
—	Approved program elective ³	<u>0-3</u>
		15-18

Total Second Year Credits 42-51

TOTAL PROGRAM CREDITS 93-99

Approved Program Electives

(3-9 credits required)

Course No.	Course Title	Credits
BA214	Business Communications	4
FRP199	Workshop: Selected Topic	1-3
FRP211	Hiring Practices in the Fire Service	3
FRP238	Public Education, Relations and Information	3
FRP241	Fire Prevention Inspections	3
FRP243	Introduction to Codes and Ordinances	3
FRP285	Fire Instructor I	3
PS203	United States Government III	3
WR227	Technical Writing	4

¹ Required for graduation.

² FRP251 taken previously for 8 credits but without a separate lab is also acceptable.

³ A minimum of 3 total elective credits are required.

For more information contact the Fire Science program:

Grants Pass or Medford 541-245-7965
 Toll free in Oregon 800-411-6508, Ext. 7965
 Web address www.roguecc.edu/emergencyservices
 email emergencyservicesadvisors@roguecc.edu
 TTY Oregon Telecom Relay Service, 711

This advising guide is for advising purposes only. Please see current college catalog for additional information on specific college policies and graduation requirements.

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