

# WILDLAND FIRE SCIENCE, CERTIFICATE

**Program Code: CC.FSWILDLAND**

The Wildland Fire Science program provides training that can lead to seasonal employment in wildland firefighting or to the first step to a career in the forest industry or park service. There are many career tracks in the field of wildland firefighting and forestry. It's exciting work that requires fundamental survival, safety and firefighting training and skills. It is also important to be physically fit, work well in a team environment, and respond quickly and efficiently to instruction/commands.

Clackamas Community College is a certified training site recognized by the Pacific Northwest Wildfire Coordinating Group (PNWCG), the Oregon Department of Forestry, and National Forest Service. Program instructors are National Wildfire Coordinating Group (NWCG) certified and offer 15-30 years of wildland firefighting experience. Many of the courses carry NWCG certification as well as college credit.

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## Outcomes

### Related Instruction Outcomes

#### Computation

- 1 course - MTH-050 Technical Mathematics I or MTH-065 Algebra II
- Use appropriate mathematics to solve problems.

#### Communication

- 1 course - WR-101 Communication Skills: Occupational Writing or WR-121 English Composition
- Read actively, think critically, and write purposefully and capably for professional audiences.

#### Human Relations

- 3-4 credits - See [Related Instruction](#) for course list
- Engage in ethical communication processes that accomplish goals.

### Program Outcomes

Upon successful completion of this program, students should be able to:

- evaluate hazards in the wilderness, forest, and fire environments and take appropriate actions to ensure personal safety;
- design a plan appropriate to the fire or incident situation;
- demonstrate safe operation of firefighting tools and equipment;
- execute the plan based on the appropriate strategy, tactics, and incident objectives;
- successfully lead, supervise, and direct personnel at the appropriate level of organization.

### Requirements

Course	Title	Credits
<b>First Term</b>		
FRP-101	Basic Forest Management	3
FRP-102	Basic Forest Management Lab	1

Course	Title	Credits
FRP-130	Introduction to Wildland Firefighting (S-130/S-190/ICS-100/IS-700/L-180)	2
FRP-243	Wilderness I: Psychology of Survival	3
GIS-101	Principles of Geospatial Technology	2
WR-101 or WR-121	Communication Skills: Occupational Writing or English Composition	3-4
<b>Credits</b>		<b>14-15</b>
<b>Second Term</b>		
FRP-211	Portable Pumps and Water Use (S-211)	2
FRP-244	Wilderness II: Basic Land Navigation (S-244)	3
FRP-245	Wilderness III: Weather of the Northwest	2
FRP-246	Wilderness IV: Backcountry CPR/First Aid/AED	2
MTH-050 or MTH-065	Technical Mathematics I or Algebra II	4
<b>Electives (p. 1)</b>		<b>2-3</b>
<b>Credits</b>		<b>15-16</b>
<b>Third Term</b>		
BI-103	General Biology; Plants & the Ecosystem	4
FRP-110	Basic Wildland Fire Investigation (FI-110)	1
FRP-131	Advanced Firefighter Training (S-131/ S-133)	1
FRP-205	Forest Management Assessments and Inventories	3
FRP-249	Followership to Leadership (L-280)	2
FRP-250	Wilderness VI: Basic Tool Use and Care	1
FRP-270	Basic Air Operations (S-270)	1
<b>Human Relations requirement</b>		<b>3-4</b>
<b>Credits</b>		<b>16-17</b>
<b>Total Credits</b>		<b>45-48</b>

### Electives

Any **EMT, FRP, GEO, GIS, or UAS** course not included in the program.

### Careers

Career opportunities include:

- wildland firefighter
- forest and conservation technician
- forest fire inspector or investigator
- forest fire prevention specialist
- independent firefighting contractor
- employment in the timber industry