

# FOREST RESTORATION AND FIRE, ASSOCIATE OF SCIENCE

## Program Description

Graduates will have the knowledge and the skillset to incorporate natural processes, including disturbance, into active forest management planning. Disturbance processes are important considerations in any actively managed forest, regardless of the specific management objective.

## Program Outcomes

This UCC program aligns with the programs offered through the OSU College of Forestry Program. UCC students that complete the Forest Restoration & Fire AS degree will have the knowledge, skills, and abilities to:

1. Demonstrate an understanding of the role of active adaptive management on forested landscapes when outcomes are uncertain
2. Demonstrate an understanding of the management of ecosystems in an era of rapid change including change in climate patterns, land use patterns, and political and social institutions
3. Demonstrate understanding of forest ecology and silviculture principles to understand how forests and forested watersheds respond to natural disturbances or management activities
4. Develop skills in geospatial analysis, basic surveying, mapping, and GIS
5. Demonstrate ability to measure and inventory forest vegetation with precision and accuracy

## Career Considerations

Forest Restoration and Fire graduates may become professional foresters, field technicians, wildland firefighters, fire ecologists, forest pathologists, or entomologists.

## Program Course Requirements

Course	Title	Credits
<b>First Year</b>		
<b>First Term</b>		
ANTH 221	Intro to Cultural Anthropology <sup>1</sup>	3
BI 211	Principles of Biology <sup>2</sup>	5
FOR 111	Introduction to Forestry	3
MTH 111Z	Precalculus I Functions	4
<b>Credits</b>		<b>15</b>
<b>Second Term</b>		
FOR 112	Problem Solving-Technology	3
FOR 234	GIS-Intro to Geographic Info	4
MTH 112Z	Precalculus II Trigonometry	4
PSY 201Z	Introduction to Psychology I <sup>1</sup>	4
<b>Credits</b>		<b>15</b>
<b>Third Term</b>		
COM 111Z	Public Speaking	4
FOR 161	Surveying I	4
STAT 243Z	Elementary Statistics I	4
WR 121Z	Composition I	4
<b>Credits</b>		<b>16</b>

<b>Second Year</b>		
<b>First Term</b>		
CH 221	General Chemistry I <sup>2</sup>	5
FES 240	Forest Biology	4
FES 241	Dendrology	4
PH 201 or PH 211	General Physics w Algebra I <sup>2</sup> or General Physics w-Calculus I	5
<b>Credits</b>		<b>18</b>
<b>Second Term</b>		
ATS 201	Climate Science	4
MTH 241	Calculus f-Mgmt-Soc Sci	4
MUS 105	Intro to Rock Music <sup>3</sup>	3
WR 227Z	Technical Writing	4
<b>Credits</b>		<b>15</b>
<b>Third Term</b>		
ECON 201	Microeconomics <sup>1</sup>	4
FES 261	Recreation Resource Mgmt	4
SOC 213	Race Class and Ethnicity	3
SOIL 205	Soil Science	3
SOIL 206	Soil Science Lab	1
<b>Credits</b>		<b>15</b>
<b>Total Minimum Credits</b>		<b>94</b>

<sup>1</sup> Any approved Social Science

<sup>2</sup> Any approved Science with lab

<sup>3</sup> Any approved Arts and Letters

## Advising Notes

- See advisor for full list of prerequisites and elective options. See following link for OSU Perspective requirements for General Education: <https://admissions.oregonstate.edu/baccalaureate-core-course-equivalencies-umpqua-community-colleg> (<https://admissions.oregonstate.edu/baccalaureate-core-course-equivalencies-umpqua-community-college/>)e