

FORESTRY

PROGRAM DESCRIPTION

The UCC Forestry Program offers the following AS degrees: 1) Forestry, AS and 2) Renewable Materials, AS. These degrees prepare students for transfer to the bachelor's degree programs at Oregon State University (OSU) College of Forestry. The curriculum is intended to meet the requirements for the first two years of course work necessary for application to the Forestry Professional Program at OSU.

Curriculum is listed on the following pages, including program requirements for each of the four options. Students should work closely with the UCC advisors and faculty and representatives of the OSU College of Forestry when developing term x term planners for the degree.

UCC students are encouraged to apply for dual enrollment at OSU through the Degree Partnership Program (DPP). Enrollment in DPP provides UCC students direct access to OSU advisors and other resources such as eligibility to apply for OSU scholarships.

The Forestry, AS degree includes the following four options:

1. **Forest Engineering**
2. **Forest Management**
3. **Forest Restoration & Fire**
4. **Forest Operations**

The **Forest Engineering** option integrates engineering and forestry skills to provide technical support for complex forest and natural resource operations. OSU also offers a dual degree in Forest Engineering and Civil Engineering with an additional year of school work.

The **Forest Management** option is a classical forestry program aimed at active land management from an industrial forest land management perspective.

The **Forest Restoration and Fire** option includes the same foundation as the Forest Management option, but goes on to provide more scientific focus on processes that operate in the forest regardless of management objectives.

The **Forest Operations** provides a foundation in classical forestry. It also includes business courses related to ownership and management of a forestry service business.

PROGRAM OUTCOMES

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

1. Identify, formulate, and solve technical problems
2. Communicate effectively
3. Function as part of a team
4. Carry out simple surveying, mapping, and geographic location activities

CAREER CONSIDERATIONS

Oregon produces more softwood lumber than any other state in the US. The employment demand continues to grow for foresters to manage forest lands and forest products.

FORESTRY

Forest Engineering ¹ Associate of Science

PROGRAM COURSE REQUIREMENTS

Year One

General Education Requirements

Arts & Letter Elective ⁶	3
CH 221 General Chemistry I	5
SP 112 Fundamentals of Public Speaking	4
WR 121 Academic Composition	4

Core Program Requirements

FOR 112 Problem Solving & Technology	3
FOR 111 ⁵ Intro to Forestry	3
FOR 161 Plane Surveying I	4
FOR 234 GIS I	4
FOR 241 Dendrology	4

Forest Engineering Option Requirements

DRF 112 Computer Aided Drafting (CAD) I	3
ENGR 111 Engineering Orientation	3
MTH 251 ² Calculus I	5
MTH 252 Calculus II	4
MTH 265 Statistics for Scientists & Engineers	4

Year One Credits 53

Year Two

General Education Requirements

ECON 201 MicroEconomics	4
WR 227 Technical Writing	4

Core Program Requirements

FOR 206 Soil Science Lab	1
FOR 240 Forest Biology	4
SOIL 205 Soil Science Lecture	3

Forest Engineering Option Requirements

ENGR 211 Statics	4
ENGR 212 Dynamics	4
ENGR 213 Strength of Materials	4
MTH 254 Vector Calculus	4
MTH 256 Differential Equations	4
PH 211 Physics w/Calculus I	5
PH 212 Physics w/Calculus II	5

Year Two Credits (minimum) 46

Transfer advising guides are listed on the UCC website:
<http://www.umpqua.edu/forestry>.

FORESTRY

**Forest Management
Forest Operation
Forest Restoration & Fire**
Associate of Science

PROGRAM COURSE REQUIREMENTS

Forest Management Forest Restoration & Fire Forest Operations

Year One (Same Courses for All Three Options)

General Education Requirements

Arts & Letter Elective ⁶	3
SP 112 Fundamentals of Public Speaking	4
WR 121 Academic Composition	4

Core Program Requirements

FOR 111 ⁵ Intro to Forestry	3
FOR 112 Problem Solving & Technology	3
FOR 161 Plane Surveying I	4
FOR 234 GIS I	4
FOR 241 Dendrology	4

Common Option Requirements

BI 212 Principles of Biology	4
MTH 1112 College Algebra	5
MTH 112 Elementary Functions	4
MTH 243 ⁴ Intro to Probability & Statistics	4

Year One Credits 47

Year Two

Forest Management Forest Restoration & Fire Forest Operations

General Education Requirements

CH 221 General Chemistry	5
ECON 201 MicroEconomics	4
WR 227 Technical Writing	4

Core Program Requirements

FOR 240 Forest Biology	4
SOIL 205 Soil Science Lecture	3
FOR 206 Soil Science Lab	1

Common Option Requirements

Arts & Letters or Social Sciences Elective ⁶	3
MTH 241 Calculus for Management or MTH 251 Calculus I	4
PH 201 ³ General Physics	4

Subtotal Credits 32

Forest Management Forest Restoration & Fire

Requirements

Arts & Letters or Social Science Elective ⁶	3
ATS 201 Climate Science	4
FOR 261 Recreation Resource Management	4
HPE 295 Health & Wellness	3

Subtotal Credits 14

Forest Operations

Requirements

BA 211 Principles of Accounting I	3
BA 212 Principles of Accounting II	3
BA 213 Principles of Accounting II	3
BA 226 Business Law	3

Subtotal Credits 12

NOTES:

- ¹ Dual Civil Engineering/Forest Engineering Majors should also take MTH 253, MTH 261, and PH 213.
- ² General education requirement for AS degree
- ³ PH 211 can be substituted for PH 201.
- ⁴ MTH 265 can be substituted for MTH 243.
- ⁵ NR 201 can be substituted for FOR 111.
- ⁶ One Arts & Letters elective must be Cultural Diversity. See following link for OSU Perspective requirements for General Education <https://main.oregonstate.edu/baccalaureate-core/transfer-students>.