

## FORESTRY

### Forest Engineering Associate of Science

#### PROGRAM MISSION

The Mission of the Forestry Program is to provide graduates with an education in fundamental forestry knowledge, applied field-based skills, and professional and ethical behavior in order to be successful professionals assisting in the management of forested ecosystems for a diverse set of landscape objectives which promote environmental, social, and economic values of forests.

#### PROGRAM DESCRIPTION

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.

#### PROGRAM OUTCOMES

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

1. Apply knowledge of mathematics, science, and engineering
2. Use the techniques, skills, and modern engineering tools necessary for engineering practice

#### CAREER CONSIDERATIONS

Foresters and forest managers are concerned with the overall administrative, economic, legal and social aspects and with the essentially scientific and technical aspects, especially silviculture, protection, and forest regulation.

#### NOTES:

- <sup>1</sup> General education requirement for AS degree
- <sup>2</sup> NR 201 can be substituted for FOR 111.
- <sup>3</sup> ENGR 112 can be substituted for FOR 112.
- <sup>4</sup> MTH 111 is pre-req for MTH241 and MTH 112 is pre-req for MTH 251.
- <sup>5</sup> MTH 265 can be substituted for MTH 243
- <sup>6</sup> 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>.

#### PROGRAM COURSE REQUIREMENTS

##### Year One

Arts & Letter Elective <sup>6</sup>		3
CH 221	General Chemistry I	5
DRF 112	Computer Aided Drafting (CAD) I	3
ENGR 111	Engineering Orientation	3
FOR 112	Problem Solving & Technology	3
FOR 111 <sup>5</sup>	Intro to Forestry	3
FOR 161	Surveying I	4
FOR 234	GIS I	4
FOR 241	Dendrology	4
MTH 251 <sup>2</sup>	Calculus I	5
MTH 252	Calculus II	4
MTH 265	Statistics for Scientists & Engineers	4
SP 111	Fundamentals of Public Speaking	4
WR 121	Academic Composition	4

**Year One Credits (minimum) 53**

##### Year Two

ENGR 211	Statics	4
ENGR 212	Dynamics	4
ENGR 213	Strength of Materials	4
ECON 201	MicroEconomics	4
FOR 206	Soil Science Lab	1
FOR 240	Forest Biology	4
MTH 254	Vector Calculus I	4
MTH 256	Differential Equations	4
PH 211	General Physics w/Calculus	5
PH 212	General Physics w/Calculus	5
SOIL 205	Soil Science Lecture	3
WR 227	Technical Writing	4

**Year Two Credits (minimum) 46**

Transfer advising guides are listed on the UCC website: [www.umpqua.edu/forestry](http://www.umpqua.edu/forestry).