

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:

* 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>

¹ NR 201 can be substituted for FOR 111

² ENGR 112 can be substituted for FOR 112

³ MTH 111 is pre-req for MTH241 and MTH 112 is pre-req for MTH 251

⁴ MTH 243 can be substituted for MTH 265

PROGRAM COURSE REQUIREMENTS

Year One

Arts & Letter Elective*		3
CH 221	General Chemistry I	5
DRF 112	Computer Aided Drafting (CAD) I	3
ENGR 111	Engineering Orientation	3
FES 241	Dendrology	4
FOR 112 ²	Problem Solving & Technology	3
FOR 111 ¹	Introduction to Forestry	3
FOR 161	Surveying I	4
FOR 234	GIS I	4
MTH 251 ³	Calculus I	5
MTH 252s	Calculus II	4
MTH 265 ⁴	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
FES 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: umpqua.edu/forestry.