

FORESTRY

Forest Operations Associate of Science

PROGRAM MISSION

Students in the forest operations option will learn about the business, land management, and timber harvesting aspects of the forestry industry.

PROGRAM DESCRIPTION

Students learn how to actively manage lands with economic efficiency and with evolving markets and policy to provide timber and fiber for the nation. To achieve program goals, the curriculum includes a traditional forestry foundation with courses in forest biology, economics, management and operations.

PROGRAM OUTCOMES

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

1. Demonstrate knowledge of business laws by being able to apply them to common business practices conducted in a contracting relationship
2. Demonstrate the ability to apply appropriate knowledge of surveying and mapping tools to implement forest operations by being able to survey and map roads, critical habitat and other common forest features
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 operations professionals often become land managers of commercially productive public and private lands. They focus on planning and managing timber harvests as well as purchasing and selling forest products. They work outside and with others who care about the health of our forests, economy and people.

PROGRAM COURSE REQUIREMENTS

Year One

Arts & Letter Elective ⁶	3-4
BI 212 Principles of Biology	4
FOR 111 ⁵ Intro to Forestry	3
FOR 112 Problem Solving & Technology	3
FOR 161 Surveying I	4
FOR 234 GIS I	4
FOR 241 Dendrology	4
MTH 111 College Algebra	5
MTH 112 Elementary Functions	4
MTH 243 ⁴ Introduction to Probability & Statistics	5
SP 111 Fundamentals of Public Speaking	4
WR 121 Academic Composition	4

Year One Credits (minimum) 45

Year Two

Arts & Letters or Social Sciences Elective ⁶	3
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	4
CH 221 General Chemistry	5
ECON 201 MicroEconomics	4
FOR 240 Forest Biology	4
FOR 206 Soil Science Lab	1
MTH 241 Calculus for Management & Social Science I or MTH 251 Calculus I	4
PH 201 ³ General Physics	5
SOIL 205 Soil Science Lecture	3
WR 227 Technical Writing	4

Year Two Credits 44