

# FOREST ENGINEERING, ASSOCIATE OF SCIENCE

## Program Description

The Forestry Program provides 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 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.

## Program Course Requirements

Course	Title	Credits
<b>First Year</b>		
<b>First Term</b>		
CH 221	General Chemistry I	5
DRF 112	Computer Aided Drafting I	3
ENGR 111	Engineering Orientation I	3
FES 241	Dendrology	4
FOR 111	Introduction to Forestry	3
<b>Credits</b>		<b>18</b>
<b>Second Term</b>		
FOR 112	Problem Solving-Technology	3
FOR 234	GIS-Intro to Geographic Info	4
MTH 251	Calculus I	5
WR 121Z	Composition I	4
<b>Credits</b>		<b>16</b>
<b>Third Term</b>		
MTH 252	Calculus II	4
MTH 265	Statistics-Scientists-Engineer	4
SOC 213	Race Class and Ethnicity	3
SUR 161	Surveying I	4
WR 227Z	Technical Writing	4
<b>Credits</b>		<b>19</b>
<b>Second Year</b>		
<b>First Term</b>		
ENGR 211	Statics	4
FES 240	Forest Biology	4
MTH 254	Vector Calculus I	4
PH 211	General Physics w-Calculus I	5
<b>Credits</b>		<b>17</b>
<b>Second Term</b>		
ENGR 213	Strength of Materials	4

MTH 256	Differential Equations	4
MUS 105	Intro to Rock Music	3
PH 212	General Physics w-Calculus II	5
<b>Credits</b>		<b>16</b>
<b>Third Term</b>		
COM 111Z	Public Speaking	4
ECON 201	Microeconomics	4
ENGR 212	Dynamics	4
SOIL 205	Soil Science	3
SOIL 206	Soil Science Lab	1
<b>Credits</b>		<b>16</b>
<b>Total Minimum Credits</b>		<b>102</b>

## Advising Notes

- MTH 243 transfers for FE major but not for dual FE/CE major. Need MTH265 (statistics with calculus) for dual major
- UCC MTH253 and MTH261 combined transfer as OSU MTH306