

FORESTRY MANAGEMENT/ OPERATIONS MANAGEMENT, ASSOCIATE OF SCIENCE

Forestry provides students with an introduction to the technical and scientific knowledge related to the field of forestry and forest management. This set of classes satisfies the requirements for an AS degree and also meets the lower division requirements at Oregon State University (OSU) for a Bachelor of Science in Forestry.

Students in the operations option focus on the business and timber harvesting side of forestry. 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.

Check out the Forestry/Natural Resources (<https://www.socc.edu/forestry>) program website!

The forestry field is projected to have many career opportunities coming up in the next decade as many forestry and natural resources professionals retire in the next few years. Students who enjoy working outdoors and want to have a career that focuses on managing our valuable forest lands to conserve and protect resources as well as produce valuable products for society should consider this degree.

Graduation Requirements

Students must complete a minimum of 99 credit hours with a cumulative Grade Point Average (GPA) of 2.0 or better. All courses must be completed with a grade of 'C' or better. Twenty-four (24) credits must be completed at Southwestern before the AS degree is awarded.

Courses that are developmental in nature, (designed to prepare students for college transfer courses), are not applicable to this degree.

Complete the graduation application process one term prior to the term of completion (e.g., spring term graduates must apply during winter term).

Pre-Program Courses

Students are required to take the following courses *prior to* the program courses, depending on students' college placement information. See advisor for details:

Code	Title	Credits
CIS90	Computer Basics (or demonstrate proficiency)	2
MTH95	Intermediate Algebra (or placement in higher math course)	4
WR90R	Academic Literacy (or placement in higher writing course)	4

Program Guide

Course	Title	Credits
First Year		
Fall		
BA250	Small Business Management Entrepreneurship	3

CHEM221	General Chemistry I	5
ENV235	Introduction to Soil Science	4
F111 or NR260	Introduction to Forestry or Watershed Processes	4
PE231	Wellness for Life	3
Credits		19
Winter		
BA212	Principles of Accounting II	4
BI202	Introductory Biology	4
GEOG265	Intro to Geographical Info Systems	3
MTH243	Intro to Probability and Statistics Statistics	4
Credits		15
Spring		
BA213	Principles of Accounting III Managerial Accounting	4
BA230	Business Law	4
F241	Dendrology	5
Specific Elective ¹		3
Credits		16
Second Year		
Fall		
ECON201	Microeconomics	4
MTH111	College Algebra	4
PH201	Gen Physics I: Mechanics	5
WR121	English Composition	3
Credits		16
Winter		
F222A	Elementary Forest Surveying	4
F250	Forest Biology	4
MTH112	Trigonometry	4
ENGR112	Engineering Computation	3
Specific Elective ²		3
Credits		18
Spring		
MTH241 or MTH251	Calculus for Bus and Soc Science I or Calculus I Differential Calculus	4
SP111	Fundamentals of Public Speaking	3
WR227	Report Writing	3
Specific Elective ³		3
Specific Elective ⁴		3
Credits		16
Total Credits		100

Footnotes

¹ Western Culture - Specific Elective options: SOC206 Social Problems and Issues, HST201 History of the United States, HST202 History of the United States, or HST203 History of the United States.

- ² Literature and the Arts - Specific Elective options: ENG104 Introduction to Literature Fiction, ENG105 Introduction to Literature Drama, ENG106 Introduction to Literature Poetry, ENG107 World Literature, ENG107H World Literature w/Honors, ENG108 World Literature, ENG201 Shakespeare, ENG204 Survey of English Literature, ENG205 Survey of English Literature, ENG206 Survey of English Literature, MUS201 Intro to Music and its Literature, ART101 Art Appreciation, ART204 History of Western Art: Introduction to Art History, ART205 History of Western Art: Introduction to Art History, or ART206 History of Western Art: Introduction to Art History.
- ³ Cultural Diversity - Specific Elective options: ANTH230 Native North Americans: Oregon, ANTH231 Native North Americans: PNW, ANTH232 Native North Americans, or HST104 History of the Middle East.
- ⁴ Western Culture - Specific Elective options: PHL102 Ethics, MUS201 Intro to Music and its Literature, ENG201 Shakespeare, ENG204 Survey of English Literature, ENG205 Survey of English Literature, ENG206 Survey of English Literature, ART204 History of Western Art: Introduction to Art History, ART205 History of Western Art: Introduction to Art History, or ART206 History of Western Art: Introduction to Art History.

Program Student Learning Outcomes

Upon successful completion of this program, the student will be able to:

- Integrate technical field skills with analytical skills to identify important forest management challenges and identify potential solutions for these problems.
- Explain and discuss important current issues, and social and political components of forest management in the United States and other countries.
- Demonstrate basic skills in forest surveying, recreation management, soil science, remote sensing, geographic information systems, and spreadsheet applications.
- Identify important tree species in the Pacific Northwest.