

# NATURAL RESOURCES, ASSOCIATE OF SCIENCE

Southwestern's Natural Resources program provides students with an introduction to the technical and scientific knowledge related to natural resource policy and management. Students can prepare for careers in natural resource planning, management, conservation and education roles with government agencies, non-governmental organizations and in educational settings.

The program guide lists the required courses for the AS degree. The program guide also lists recommended electives appropriate for the field. For more info, check out the Southwestern's Forestry/Natural Resources (<https://www.socc.edu/forestry>) webpage.

Southwestern has a formal articulation agreement with Oregon State University (OSU) aligning this AS Natural Resources Emphasis degree with OSU's Natural Resources Bachelor of Science degree, Watershed Management option. Students that complete the AS degree with Natural Resources emphasis at Southwestern will satisfy most lower division courses required for the bachelor's in Natural Resources, Watershed Management option.

Following completion of the AS Natural Resources Emphasis degree, students may transfer to OSU with 90 or more credit hours (up to 124 can be transferred). Southwestern courses in the AS Natural Resources emphasis are listed in the articulation agreement. AS Natural Resources graduates transferring to OSU have junior standing with only (a) upper division Synthesis and WIC requirements of the Baccalaureate Core to be completed, and (b) upper division courses associated with the Natural Resources degree program. For specific details on the articulation of these degrees see the University Center (<https://www.socc.edu/uc>) staff.

## Graduation Requirements

Students must complete a minimum of 103 credit hours with a minimum Grade Point Average (GPA) of 2.0 or better. All courses in this program must be completed with a '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
CIS120	Concepts of Computing	4
MTH111 or MTH111H	College Algebra College Algebra w/Honors	4
WR90 or WR90R	Paragraph Fundamentals (or placement in higher writing course) Academic Literacy	3-4

## Program Guide

Course	Title	Credits
<b>First Year</b>		
<b>Fall</b>		
BI101	General Biology	4
CHEM221	General Chemistry I	5
MTH112 or MTH112H	Trigonometry or Trigonometry w/Honors	4
NR201	Managing Natural Res for the Future	3
WR121 or WR121H	English Composition or English Composition w/Honors	3
Credits		19
<b>Winter</b>		
BI102	General Biology	4
G202	Physical Geology II <sup>1</sup>	4
PHL102	Ethics	3
WR227	Report Writing	3
English Literature Course <sup>2</sup>		3
Credits		17
<b>Spring</b>		
BI103	General Biology	4
MTH243	Intro to Probability and Statistics	4
NR180	Internship: Natural Resources	1-3
NR260	Watershed Processes	4
PE231	Wellness for Life	3
Credits		16-18
<b>Second Year</b>		
<b>Fall</b>		
ENV235	Introduction to Soil Science	4
G201	Physical Geology I <sup>1</sup>	4
GEOG265	Intro to Geographical Info Systems	3
PH211	Gen Physics w/Calculus I	5
MTH251 or MTH251H	Calculus I Differential Calculus or Calculus I w/Honors	4
Credits		20
<b>Winter</b>		
ECON201	Microeconomics	4
F222A	Elementary Forest Surveying	4
F250	Forest Biology	4
MTH252 or MTH252H	Calculus II Integral Calculus or Calculus II w/Honors	4
Credits		16
<b>Spring</b>		
F241	Dendrology	5
GEOG209	Physical Geography Weather/Climate	4
HST203	History of the United States	3
SP111	Fundamentals of Public Speaking	3
Credits		15
Total Credits		103-105

<sup>1</sup> Requires concurrent course of G145 Regional Field Geology or G0250 Field Geo:

<sup>2</sup> Choose from: ENG104 Introduction to Literature Fiction, ENG105 Introduction to Literature Drama, or ENG106 Introduction to Literature Poetry.

**The following courses are recommended, but are not part of the degree:**

<b>Code</b>	<b>Title</b>	<b>Credits</b>
ANTH230	Native North Americans: Oregon	3
ANTH231	Native North Americans: PNW	3
ANTH232	Native North Americans	3

## **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 natural resources problems and begin to identify effective solutions for these problems.
- Acquire knowledge regarding a range of natural resources current issues, social and political components of resource management.
- Work with experts in a variety of natural resource fields.
- Apply watershed management principles and practices to actual natural resources issues and problems to develop plans and solutions.