

## ASSOCIATE OF SCIENCE NATURAL RESOURCES EMPHASIS

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

SWOCC now has a formal articulation agreement with Oregon State University to match the Associate of Science Natural Resources Emphasis degree with their Natural Resources Bachelor of Science degree program, focusing on the OSU Watershed Management option. Students that complete the AS degree with Natural Resources emphasis at SWOCC will have satisfied a large majority of the lower division courses required at OSU in their Natural Resources degree with Watershed Management option.

Following completion of the AS Natural Resources Emphasis degree at SWOCC, the student would then transfer to OSU with 90 or more credit hours (up to 124 can be transferred). These courses, would all be articulated from SWOCC to OSU via the articulation agreement that has been prepared. The student would transfer to OSU and have Junior standing with only (1) the upper division Synthesis and WIC requirements of the Baccalaureate Core that would remain to be completed (all of the Skills, Perspective, and DPD categories would have been successfully completed), and (2) the mostly upper division courses associated with the Natural Resources degree program.

The curriculum template on the next page lists the required courses for the AS degree, all of which satisfy a required course at OSU in that program, and also lists the extra courses that can be taken while at SWOCC that are also required at OSU for the Natural Resources degree with Watershed Management option. With those classes taken at SWOCC, a student can then enter OSU close to being full junior status in the Natural Resources Watershed option bachelor degree program.

### 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.

### 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).



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PREREQUISITES	Reading Score of ASSET42 COMPASS81	<b>CIS120 (3)</b> Concepts of Computing (or demonstrate proficiency)	<b>MTH111 (4)</b> College Algebra (or placement test score)	<b>WR90 (3)</b> Paragraph Fundamentals (or placement test score)
FALL = 16 CREDITS	<b>WR121 (3)</b> English Composition	<b>MTH112 (4)</b> Trigonometry	<b>BI101 (4)</b> General Biology	<b>CHEM221 (5)</b> General Chemistry
WINTER = 14 CREDITS	<b>WR227 (3)</b> Report Writing	<b>G202 (4)</b> Physical Geology II <sup>1</sup>	<b>BI102 (4)</b> General Biology	<b>NR201 (3)</b> Managing Natural Resources for the Future
SPRING = 14 CREDITS	<b>MTH243 (4)</b> Introduction to Probability and Statistics	<b>BI103 (4)</b> General Biology	<b>NR260 (3)</b> Watershed Processes	<b>PE231 (3)</b> Wellness for Life
SUMMER = 10-12 CREDITS	<b>NR180 (1-3)</b> Internship	<b>PHL102 (3)</b> Ethics	<b>HST201 (3)</b> History of the United States	<b>ENG (3)</b> Introduction to Literature <sup>2</sup>

PROGRAM REQUIREMENTS

### 54-56 CREDITS = FIRST YEAR TOTAL REQUIREMENT

FALL = 17 CREDITS	<b>PH211 (5)</b> General Physics with Calculus	<b>MTH251 (4)</b> Calculus I: Differential Calculus	<b>G201 (4)</b> Physical Geology I <sup>1</sup>	<b>ENV235 (4)</b> Introduction to Soil Science
WINTER = 15 CREDITS	<b>MTH252 (4)</b> Calculus II: Integral Calculus	<b>GEOG265 (3)</b> Introduction to Geographical Information Systems	<b>F222A (4)</b> Elementary Forest Surveying	<b>ECON201 (4)</b> Microeconomics
SPRING = 16 CREDITS	<b>SP111 (3)</b> Fundamentals of Public Speaking	<b>GEOG209 (4)</b> Physical Geography: Weather and Climate	<b>F241 (5)</b> Dendrology	<b>F250 (4)</b> Forest Biology

### 48 CREDITS = SECOND YEAR TOTAL REQUIREMENT

### 102-104 CREDITS = TOTAL PROGRAM REQUIREMENT

Courses that are recommended to take while at SWOCC but are not part of the degree.	<b>ANTH230, 231, OR 232 (3)</b> Native North Americans Meets OSU Cultural Diversity
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**PROGRAM NOTES**  
<sup>1</sup> Requires concurrent course of G145 or G0250.      <sup>2</sup>ENG104, 105, or 106 may be taken.