

NATURAL RESOURCES (OSU TRANSFER) EMPHASIS - ASSOCIATE OF SCIENCE (AS)

Description

The Natural Resources (OSU Transfer) Emphasis Associate of Science is designed to fulfill 90-106 credits of the lower-division requirements of a Bachelor of Science in Natural Resources at [Oregon State University-Cascades](#). A fish and wildlife conservation option and an individualized specialty option are available at OSU-Cascades and at Central Oregon Community College. Other universities' requirements for a natural resources degree may be similar. Students planning to transfer to any natural resources program should meet with a forest resources technology advisor to discuss transfer requirements.

Statewide General Education Student Learning Outcomes

Please see the [General Education page](#) for statewide general education student learning outcomes.

Entrance Requirements

While this degree has no formal entrance requirements, individual courses may have prerequisites which must be met before enrollment.

Course Requirements

Course	Title	Credits
Baccalaureate Core		
Skills		
<u>Writing I:</u> ¹		4
<u>Writing II:</u>		4
Recommend WR 227Z ¹		
<u>Speech:</u>		3-4
Recommend COMM 111Z ¹		
Mathematics: Met by Program Requirements		
<u>Fitness:</u>		3
Recommend HHP 295 ¹		
Perspectives Courses ^{1,2}		
Choose one course in each of the following categories:		
Physical Science: Met by Program Requirements		
Biological Science: Met by Program Requirements		
Physical or Biological Science: Met by Program Requirements		
<u>Western Culture:</u> ¹		3-4
<u>Literature and the Arts:</u> ¹		3-4
Social Processes and Institutions: Met by Program Requirements ¹		
Program Requirements		
Choose one option from the following: ³		12-15
Option 1:		
BI 101	General Biology: Cells & Genes	
BI 102	General Biology: Evolution	
BI 103	General Biology: Ecology	
Option 2:		
BI 221Z	Principles of Biology: Cells	
BI 222Z	Principles of Biology: Organisms	

BI 223Z	Principles of Biology: Ecology and Evolution	
CH 104	Introduction to Chemistry I	5
or CH 221Z & CH 227Z	General Chemistry I and General Chemistry I Laboratory	
EC 201Z	Principles of Microeconomics	4
FOR 208	Soils: Sustainable Ecosystems	4
FW 212	Survey of Northwest Birds	2
or FW 218	Survey of Northwest Mammals	
FOR 235	Resource Measurements	4
FOR 240A	Forest Ecology	3
FOR 241A	Field Dendrology	3
or FOR 241B	Dendrology	
FOR 251	Recreational Resource Management	3-4
or FOR 260	Conservation of Natural Resources	
or FW 257	Hunting in Modern Society	
FW 251	Wildlife Conservation	3
G 201	Geology I - The Dynamic Earth	4
or G 202	Geology II - Earth's Surface	
or GEOG 278	Physical Geography: Landforms in Nature	
GEOG 265	Geographic Information Systems	4
GEOG 279	Physical Geography: From Severe Weather to Climate Change	4
STAT 243Z	Elementary Statistics I	4
MTH 112Z	Precalculus II: Trigonometry	4
or MTH 241	Calculus for Management/Social Science	
or MTH 251Z	Differential Calculus	

Natural Resources Options

Choose one of the following options (see lists below):	4-15
Fish and Wildlife Conservation Option	
Individualized Specialty Option	

Electives

Choose any course numbered 100 or above that brings the total credits to 90 quarter hours. This may include up to 12 credits of Career and Technical Education courses designated by COCC as acceptable. ⁵	3
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Total Credits	90-108
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¹ Select from the appropriate category in the [OSU Baccalaureate Core course list](#).

² No more than two courses (or lecture/lab combinations) from any one department may be used by a student to satisfy the Perspectives category of the core. GEO courses listed under Physical Science are considered to be from a different department than GEO courses listed under any other Perspective category.

³ Option 2 is recommended.

⁴ CH 221Z & CH 227Z are recommended if you take BI 221Z Principles of Biology: Cells, BI 222Z Principles of Biology: Organisms, and BI 223Z Principles of Biology: Ecology and Evolution.

⁵ It is recommended that students complete the following courses: FOR 260, GEOG 278, MTH 112Z. For those students

pursuing the Individualized Specialty Option it is recommended to take FOR 230A, FOR 111, FOR 230B, FOR 126.

Natural Resources Options

Fish and Wildlife Conservation Option

Course	Title	Credits
FOR 111	Forestry Perspectives	4
Total Credits		4

Individualized Specialty Option

Course	Title	Credits
Choose four from the following:		8-15
FOR 111	Forestry Perspectives	
FOR 126	Field Studies Pacific NW Forests	
FOR 127	Plants of the Pacific Northwest	
FOR 230A	Map, Compass and GPS	
FOR 230B	Forest Surveying	
FOR 236	Aerial Photo	
FOR 240B	Wildlife Ecology	
FOR 271	Applied Forest Ecology	
FOR 272	Forest Entomology/Pathology	
FOR 273	Silviculture and Harvesting Systems	
Total Credits		8-15

Advising Notes

The following requirement is not part of the Associate of Science degree, but it is required at Oregon State University:

- Perspectives course, cultural diversity category (see the [Baccalaureate Core list](#))

The difference, power and discrimination requirement is met by an upper-division program requirement.

Performance Standards

- Academic Requirements:
 - Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
 - All courses in the program must be completed with a grade of C or higher

Sample Plan

First Year

Fall		Credits
FOR 240A	Forest Ecology	3
FOR 241A or FOR 241B	Field Dendrology or Dendrology	3
Mathematics (recommend MTH 112Z)		4
Natural Resources Option (recommend FOR 230A) ¹		3
WR 121Z	Composition I	4
Credits		17

Winter

Chemistry (recommend CH 221Z & CH 227Z)		5
FOR 235	Resource Measurements	4
GEOG 265	Geographic Information Systems	4

Natural Resources Option (recommend FOR 230B) ¹		0-3
Credits		13-16

Spring

FOR 208	Soils: Sustainable Ecosystems	4
FOR 260	Conservation of Natural Resources	3
FW 212 or FW 218	Survey of Northwest Birds or Survey of Northwest Mammals	2
Natural Resources Option (recommend FOR 126) ¹		0-1
FW 251	Wildlife Conservation	3
HHP 295	Health and Fitness	3
Credits		15-16

Second Year

Fall

Biology sequence (recommend BI 221Z)		5
Geology or Physical Geography (recommend GEOG 278)		4
Natural Resources Option (recommend FOR 111) ¹		0-4
Western Culture		3-4
Credits		12-17

Winter

Biological Sequence (recommend BI 222Z)		5
GEOG 279	Physical Geography: From Severe Weather to Climate Change	4
STAT 243Z	Elementary Statistics I	4
Writing II (recommend WR 227Z)		4
Credits		17

Spring

Biological Sequence (recommend BI 223Z)		5
EC 201Z	Principles of Microeconomics	4
Literature and Arts		3-4
Speech (recommend COMM 111Z)		4
Credits		16-17
Total Credits		90-100