

# NATURAL RESOURCES, ASSOCIATE OF SCIENCE

## Program Description

There are three choice of tracks to complete the Natural Resource program: Fish and Wildlife Conservation, Forest Ecosystems, and Conservation Law Enforcement. Each track will result in an A.S. degree that prepares students with the necessary knowledge for an entry-level position or provide a foundation for transferring to a university.

## Program Outcomes

Students who complete the Natural Resources Associate of Science will have the knowledge, skills, and abilities to:

1. Describe natural ecological processes and human impacts that influence ecosystem change, and ecological succession in landscapes of the Pacific Northwest
2. Recognize and describe the interrelationships between ecosystem communities and how social communities have an effect on the use and management of natural resources
3. Describe and evaluate a set of natural resource-related objectives and be able to evaluate the success of these actions
4. Evaluate management problems while working collaboratively within and among teams
5. Describe and quantify the biological and physical interrelationships between ecosystem resources

## Career Considerations

Tracks in the Natural Resources program will prepare students for jobs in conservation science, conservation law enforcement, ecosystem management, wildlife biology, fisheries science, botany, forestry, and other fields related to natural resource science and conservation.

## Program Core Requirements

Course	Title	Credits
<b>First Year</b>		
<b>First Term</b>		
BI 211	Principles of Biology	5
CH 221	General Chemistry I	5
FES 241	Dendrology	4
NR 201	Introduction-Natural Resources	3
<b>Credits</b>		<b>17</b>
<b>Second Term</b>		
BI 212	Principles of Biology	5
MTH 111Z	Precalculus I Functions	4
WR 121Z	Composition I	4
NR 251	Principles Wildlife Conserv	3
<b>Credits</b>		<b>16</b>
<b>Third Term</b>		
BI 213	Principles of Biology	5
BOT 203	General Field Botany <sup>1</sup>	4
MTH 112Z	Precalculus II Trigonometry	4
WR 227Z	Technical Writing	4
<b>Credits</b>		<b>17</b>
<b>Second Year</b>		
<b>First Term</b>		
COM 111Z	Public Speaking	4

FES 240	Forest Biology	4
G 221	Environmental Geology	4
STAT 243Z	Elementary Statistics I	4
<b>Credits</b>		<b>16</b>
<b>Second Term</b>		
ATS 201	Climate Science	4
ENG 230	Environmental Lit	4
GIS 234	GIS 1-Intro to Geographic Info	4
NR 221	Water Resource Science	4
<b>Credits</b>		<b>16</b>
<b>Third Term</b>		
NR 230	Forest Ecosystems	3
PSY 201Z	Introduction to Psychology I	4
SOIL 205	Soil Science	3
SOIL 206	Soil Science Lab	1
<b>Credits</b>		<b>11</b>
<b>Total Minimum Credits</b>		<b>93</b>

## Tracks of Study

All Natural Resource students are required to complete the Program Course Requirements. In addition to the Program Course Requirements, students are responsible for completing one of the specialized tracks. Each track will provide specialized coursework unique to the respective field of study.

**Fish and Wildlife Conservation – Track 1 (<https://umpqua-public.courseleaf.com/programs-study-az/natural-resources/natural-resources-as/fish-and-wildlife/>)**

**Forest Ecosystem – Track 2 (<https://umpqua-public.courseleaf.com/programs-study-az/natural-resources/natural-resources-as/forest-ecosystems/>)**

**Conservation Law Enforcement – Track 3 (<https://umpqua-public.courseleaf.com/programs-study-az/natural-resources/natural-resources-as/conservation-law-enforcement/>)**