

# NATURAL RESOURCES

ASSOCIATE OF SCIENCE IN NATURAL RESOURCES – 90 CREDITS

## CAREER DESCRIPTION

The Associate of Science degree in Natural Resources gives students a comprehensive educational foundation for careers related to natural resource science and technology. This program prepares students for jobs in conservation science, wildlife biology, fisheries science, botany, forestry, ecosystem management, watershed management and other fields related to natural resource science and conservation. The program takes advantage of the diversity of resources available on nearby public lands, and the expertise of local professionals who manage those lands, to provide a mix of classroom, lab and field experiences not found at any other institution. Our Landscape Monitoring Option introduces the theory and practice of landscape monitoring, and offers broad laboratory and field training in measuring and analyzing ecological conditions at the microsite, community, and landscape levels. Students are also free to create their own “Individualized Specialty Option” Bachelor of Science degree in consultation with UCC faculty and OSU’s Natural Resources Program Manager that fits their unique goals. See <https://www.umpqua.edu/natural-resources> for more information.

## PROGRAM OUTCOMES

Program Outcomes for this degree are available at <http://www.umpqua.edu/natural-resources>. Contact the UCC program advisor for additional information.

## ACCEPTANCE REQUIREMENTS

Students are required to take college placement tests to determine skill level and readiness for college-level courses. Coursework from accredited high schools, colleges and universities will be accepted in accordance with college policies and with the approval of the Science Department Chair.

## PROGRAM INFORMATION

Students who graduate with an Associate of Science degree in Natural Resources will be well-trained for entry-level jobs in the natural resource economy. The program is specifically designed for seamless transfer to the Oregon State University College of Forestry’s Bachelor of Science degree in Natural Resources. Students will receive a solid grounding in the fundamentals of writing, math and science, and will apply those concepts and skills in the lab and in the field. Training will emphasize current monitoring methods and technologies employed by agency field specialists. Transfer agreements between OSU and the UCC Science and Engineering Depts. also allow course transfers into many other options within the OSU Natural Resources BS, and into BS degrees in Forest Engineering, Forest Management, Forest Operations, and others.

## CURRICULUM

The program courses are listed below in 3 categories:

1. OSU Baccalaureate Core Equivalents are courses that meet OSU’s general education requirements for any major.
2. OSU Natural Resources Core Equivalents meet the core requirements of OSU’s Natural Resources major.
3. OSU Landscape Monitoring Option courses meet this specific option that was jointly developed by UCC and OSU.

Once the AS degree is completed, there are a number of other UCC courses that meet additional requirements for a Bachelor of Science degree at OSU or that can be used for individual specialization options. Consult your advisor to learn more about these.

### OSU Baccalaureate Core Equivalents:

BI 211	Principles of Biology I <sup>1</sup>	5
BI 212	Principles of Biology II <sup>1</sup>	5
BI 213	Principles of Biology III <sup>1</sup>	5
ENG 230	Environmental Literature	4
G 221	Environmental Geology <sup>1</sup>	4
MTH 111	College Algebra	5
NR 240	Forest Biology <sup>1</sup>	4
NR 241	Dendrology <sup>1</sup>	4
SOIL 205/206	Soil Science w/Lab <sup>1</sup>	4
SP 111	Fundamentals of Public Speaking	4
WR 121	English Comp. Intro to Argument	4
WR 227	Technical Report Writing	4

### OSU Natural Resources Core Equivalents

BOT 203	Field Botany	4
CH 112	Fundamentals of Chemistry	5
GIS 234	Introduction to GIS	4
MTH 243	Intro to Statistics	4
NR 201	Intro to Natural Resources	3
NR 221	Water Resource Science	4
NR 255*	Field Sampling of Fish and Wildlife	3
NR 261	Recreation Resource Management	4
NR 295	Environmental Dispute Resolution	3

### OSU Landscape Monitoring Option

BOT 204	Field Bot. SW OR & N CA (hybrid) <i>OR</i>	
NR 242	Ecosystems of SW OR & N CA (hybrid)	4
NR 243*	Historical Ecology of PNW Landscapes	3
NR 251	Prin. of Fish & Wildlife Conservation	3

\* Course articulation with OSU pending

# ASSOCIATE OF SCIENCE IN NATURAL RESOURCES — Landscape Monitoring Option

97 Credits — Recommended Sequence for Students (Students should see an advisor to customize their educational plan.)

<b>YEAR ONE</b>	<b>Fall</b>	Principles of Biology I BI 211 5 CR	Fundamentals of Chemistry CH 112 5 CR	Intro to Natural Resources NR 201 3 CR	English Comp. Intro to Argument WR 121 4 CR	<b>CREDITS 17</b>
	<b>Winter</b>	Principles of Biology II BI 212 5 CR	Principles of Fish and Wildlife Conservation NR 251 3 CR	Environmental Literature <sup>3</sup> ENG 230 4 CR	Technical Report Writing WR 227 4 CR	<b>CREDITS 16</b>
	<b>Spring</b>	Principles of Biology III BI 213 5 CR	Dendrology NR 241 4 CR	Field Botany BOT 203 4 CR	College Algebra MTH 111 5 CR	<b>CREDITS 18</b>
<b>YEAR TWO</b>	<b>Fall</b>	Intro to Statistics MTH 243 5 CR	Forest Biology NR 240 4 CR	Environmental Geology G 221 4 CR	Fundamentals of Public Speaking SP 111 4 CR	<b>CREDITS 17</b>
	<b>Winter</b>	Introduction to GIS GIS 234 4 CR	Environmental Dispute Resolution NR 295 3 CR	Historical Ecology of PNW Landscapes NR 243 3 CR	Water Resource Science NR 221 4 CR	<b>CREDITS 14</b>
	<b>Spring</b>	Soil Science SOIL 205/206 4 CR	Recreation Resource Management NR 261 4 CR	Field Sampling of Fish and Wildlife NR 255 3 CR	Ecosystems of SW OR & N CA NR 242 4 CR <i>OR</i> Flowering Plants of SW OR & N CA BOT 204 4 CR	<b>CREDITS 15</b>

## NOTES

<sup>1</sup> Also meets OSU NR Core requirements

Scheduling requirements may prevent all courses from being offered every term. Consultation with an advisor is critical to student's selection of courses. Please see an advisor for a degree planning worksheet for a program.