

NATURAL RESOURCES CONSERVATION, A.A.S.

Major Code: 0617

The Natural Resources Conservation curriculum provides fundamental training in ecology, fish and wildlife, forestry, outdoor recreation, tree care, and related subjects. Students receive a broad-based education with an emphasis on practical, hands-on experience. College, state and county properties provide a wide assortment of opportunities for field experiences such as fish surveys, trail building, wildlife habitat improvement and forest surveys and management.

Career Opportunities

Parks, forestry, arboriculture, fisheries and wildlife management, soil conservation service, conservation officer, forestry technician, forest ranger, environmental consultant, and water and wastewater treatment plant operator.

Student Learning Outcomes

Upon successful completion of this program, students will be able to:

- Describe the state of the natural resources profession and potential career opportunities.
- Conduct himself/herself in a manner consistent with an embodied sense of conservation stewardship.
- Deal professionally and ethically with clients, the public, and agency personnel.
- Utilize oral and computer communication skills necessary to interact in the profession.
- Demonstrate advanced knowledge and competency in taxonomy and natural history.
- Demonstrate hands-on experience in natural resource sampling, inventory, and measurement techniques.
- Demonstrate competency in utilizing geospatial technologies (Global Positioning System – GPS, Geographic Information System – GIS, and remote sensing).
- Apply critical thinking and problem-solving skills in natural resource conservation.
- Utilize existing technology, products, and services to maximize work efficiency and success.
- Practice a collaborative spirit in team-efforts and project coordination.

Curriculum Requirements

A minimum of 60 credits is required for degree completion.

Curriculum

Code	Title	Credits
Major Field Requirements		
NATR 100	Intro to Forestry and NR	3
NATR 101	General Ecology	3
NATR 103	Natural Resources Equipment Op	2
NATR 110	Natural Resources Measurements	3
NATR 113	Intro to Global Positioning Sys	1
NATR 115	Forest Ecology	3

NATR 120	Intro To Recreation Area Mgmt	3
NATR 142	Plane Surveying I	3
NATR 144	Seminar/Environmental Resc I	1
NATR 145	Intro Environmental Technology	3
NATR 210	Dendrology	3
NATR 213	Basics Geospatial Technology	2
NATR 250	Aquatic Ecology	3
BIOL 102	Botany-Form Function Seed Plt	3
AGRO 110	Soil Science	3
SUNY General Education Communication Written and Oral as advised		6
SUNY General Education Mathematics as advised		3
SUNY General Education Diversity, Equity, Inclusion and Social Justice as advised		3
Technical Electives as advised selected from AGBS, AGEN, AGSC, BIOL, BSAD, CHEM, CJUS, ENSC, ENRM, HORT, NATR, RENG		2-3
Core Specialization		
Select three of the following:		9
NATR 211	Forest Protection	
NATR 215	Practices Of Silviculture	
NATR 221	Invasive Species Management	
NATR 232	Wildlife Ecology & Management	
NATR 252	Fish Ecology and Management	

Total Credits 62-63

Society of American Foresters Accredited Forest Technology Concentration

Students wishing to specialize in forestry and silviculture can enroll in the Forest Technology Concentration and will take:

Code	Title	Credits
Capstone Electives		
NATR 211	Forest Protection	3
NATR 215	Practices Of Silviculture	3
NATR 232	Wildlife Ecology & Management	3
Technical Elective		
BSAD 116	Business Organization & Mgmt	3
Internship		
Minimum one credit internship at an approved forest industry internship site:		1
NATR 246	Internship Natural Resources	

Total Credits 13

Arboriculture and Urban Forestry Concentration

Students wishing to specialize in tree care, arboriculture, and urban forestry can enroll in the Arboriculture and Urban Forestry Concentration. They will take:

Code	Title	Credits
NATR 160	Principles of Arboriculture ¹	2
NATR 161	Practices of Arboriculture ¹	1
NATR 310	Urban Forest Management	3
NATR 211	Forest Protection	3
or HORT 241	Plant Protection	

One additional NATR Capstone Elective	3
Total Credits	12

1

Take in place of NATR 250 Aquatic Ecology

Suggested Course Sequence

Course	Title	Credits
Year 1		
Fall		
BIOL 102	Botany-Form Function Seed Plt	3
SUNY General Education Communication Written and Oral as advised		3
SUNY General Education Mathematics as advised		3
NATR 100	Intro to Forestry and NR	3
NATR 144	Seminar/Environmental Resc I	1
NATR 113	Intro toGlobal Positioning Sys	1
NATR 145	Intro Environmental Technology	3
Credits		17
Spring		
NATR 101	General Ecology	3
NATR 103	Natural Resources Equipment Op	2
NATR 110	Natural Resources Measurements	3
NATR 115	Forest Ecology	3
NATR 213	Basics Geospatial Technology	2
SUNY General Education Communication or other General Education credits as advised		
SUNY General Education Diversity, Equity, Inclusion & Social Justice or Technical Elective as advised		3
Note: Students planning on matriculating into the Environmental & Natural Resource Management, B.Tech. program should take an additional GenEd elective from a different GenEd category.		
Credits		16
Year 2		
Fall		
NATR 120	Intro To Recreation Area Mgmnt	3
NATR 142	Plane Surveying I	3
NATR 210	Dendrology	3
NATR 250	Aquatic Ecology	3
SUNY General Education Communication or other General Education credits as advised		3
SUNY General Education Diversity, Equity, Inclusion & Social Justice or Technical Elective as advised		3
Credits		18
Spring		
AGRO 110	Soil Science	3
SUNY General Education Communication or other General Education credits as advised		2-3
SUNY General Education Diversity, Equity, Inclusion & Social Justice or Technical Elective as advised		3
Select three of the following Capstone Courses:		9
NATR 211	Forest Protection	
NATR 215	Practices Of Silviculture	
NATR 221	Invasive Species Management	
NATR 232	Wildlife Ecology & Management	
NATR 252	Fish Ecology and Management	
Credits		17-18
Total Credits		68-69