BACHELOR OF ARTS

Environmental Science integrates natural and social sciences to study the interrelationships between people and nature. Using an interdisciplinary approach that incorporates academic fields like ecology, hydrology, earth and soil sciences, natural resource management, ethics, as well as environmental policy and law, the Environmental Science program empowers students to analyze complex environmental issues across multiple perspectives. In doing so, Environmental Science students learn to assess causes of environmental problems and apply their knowledge to develop solutions to these problems.

About this Program

- **College:** Agricultural and Life Sciences (http://catalog.ufl.edu/UGRD/colleges-schools/UGAGL/)
- **School:** Natural Resources and Environment (http://catalog.ufl.edu/UGRD/colleges-schools/UGNTR/)
- **Degrees:** Bachelor of Arts (p. 1) | Bachelor of Science (http://catalog.ufl.edu/UGRD/colleges-schools/UGNTR/EVS_BA_BS/EVS_BS/)
- **Credits for Degree:** 120
- **More Info**

To graduate with this major, students must complete all university, college, and major requirements.

School Information

The School of Natural Resources and Environment (SNRE) offers campus-wide, interdisciplinary degree programs at both the undergraduate and graduate levels. SNRE is governed by the SNRE Advisory Board and advised by the SNRE Faculty Advisory Council.
Website (http://snre.ifas.ufl.edu/)

CONTACT

Email (tracy.moorman@ufl.edu) | 352.392.9230

P.O. Box 116455
2035 McCarty Hall D
GAINESVILLE FL 32611-6455

Curriculum

- Combination Degrees
- Environmental Science
- Environmental Science Minor

The School of Natural Resources and Environment's environmental science degrees approach complex environmental issues with multidisciplinary academic knowledge and interdisciplinary perspectives to prepare graduates for jobs in environmental consulting companies, government environmental offices, land and water management agencies, or non-government organizations. SNRE's environmental science degrees are campus-wide programs, allowing students to learn from experts in multiple academic units at the University of Florida. Multiple course options are available to meet most degree requirements, giving students a large degree of flexibility in customizing their program of study to suit their individual interests with the assistance of the advising staff.

About half of Environmental Science students advance to graduate or professional degree programs. The combination of the school's broad undergraduate degree with a subsequent graduate or professional degree is highly marketable.

The school also offers a combination degree program that pairs a bachelor's degree in environmental science with a Master of Science in interdisciplinary ecology.

Requirements and Differences Between BA and BS Degrees

Both Bachelor of Science and Bachelor of Arts degrees prepare students for a wide range of careers in environmental science. The BS places greater emphasis on the natural sciences, whereas the BA is more focused on the social sciences and their application to economics, policy, and management.

BS students interested in seeking admission to a medical, veterinary, or similar professional school after graduation may pursue a Pre-Health track (subject to permission by the undergraduate coordinator). Students in either degree interested in advancing to law school after graduation are encouraged to review UF's pre-Law resources.
More Info (https://www.advising.ufl.edu/pre-law/)

Subject to permission by the undergraduate coordinator, BS students interested in seeking admission to a medical, veterinary, or similar professional school after graduation may pursue a Pre-Health track. Students in either degree interested in advancing to law school after graduation are encouraged to review Pre-Law resources.

More Info (https://www.advising.ufl.edu/pre-law/)

The freshmen and sophomore years lay a foundation of coursework through critical-tracking courses for building later expertise. Students need to know the natural sciences of physics, chemistry, and biology. Study of microeconomics and macroeconomics is required to understand the human economy. Introductory statistics empowers students to independently evaluate quantitative data. College algebra (BA) and an introduction to calculus (BS) enable students to work with rates of change, the heart of ecological science.

Critical-Tracking Requirement	BA	BS
Biological Sciences	BSC 2010/L & BSC 2011/L (8 credits)	BSC 2010/L & BSC 2011/L (8 credits)
General Chemistry	CHM 2045/L (4 credits)	CHM 2045/L & CHM 2046/L (8 credits)
Economics	ECO 2013 & ECO 2023 (8 credits)	AEB 3103 (4 credits) or both ECO 2013 & ECO 2023 (8 credits)
Mathematics	MAC 1147 (4 credits)	MAC 2311 (4 credits) or MAC 2233 (3 credits)
Physics	PHY 2004 (3 credits) or PHY 2020 (3 credits)	PHY 2004/L (4 credits) or PHY 2048/L (4 credits) or PHY 2053/L (5 credits)
Statistics	STA 2023 (3 credits)	STA 2023 (3 credits)
Public Speaking	AEC 3030C (3 credits) or SPC 2608 (3 credits)	N/A
Total	**33 credits**	**30-36 credits**

In addition to the critical tracking requirements, students admitted as freshmen are responsible for completing State Core General Education as well as the university's General Education, Quest, and Writing Requirements.

Certain critical tracking and core courses simultaneously fulfill General Education and Writing Requirements, and students should seek to maximize the number of overlapping courses for efficiency. For most students, all but 15 credits of the General Education requirement are met through the BA and BS curriculum. Incoming credit (e.g. AP, AICE, IB, CLEP, etc.) may further reduce the number of General Education courses students need to complete.

Students should work closely with their academic advisor to ensure satisfactory progress towards degree completion throughout their academic career.

After General Education and most critical-tracking coursework is complete, students begin to take the degree's core courses (41-46 credits for the BA, 41-47 credits for the BS), providing a base of common knowledge and experience in subjects essential to Environmental Science. During the fourth year, students enroll in SNRE's capstone course that further develops and assesses critical thinking skills by confronting conflicts of ecological and economic paradigms, synthesizing across physical, biological, and social systems, and engaging diverse knowledge and views to help resolve key environmental problems.

Core Requirement	BA	BS
Foundation Courses	11 credits	11 credits
General Ecology	3-4 credits	3-4 credits
Ecology of Specific Systems	N/A	3 credits
Earth and Soil Science	3-4 credits	3-4 credits
Global and Hydrologic Systems	3-4 credits	3-4 credits
Methods and Technology	N/A	3-4 credits
Organic Chemistry	N/A	3 credits
Natural Resource Management	3-4 credits	3-4 credits
Resource Economics	3-4 credits	N/A
Environmental Ethics	3 credits	3 credits
Environmental Policy and Law	6 credits	3-4 credits
Social Science Perspectives	3 credits	N/A
Capstone Course	3 credits	3 credits
Total[1]	**41-47 credits**	**41-47 credits**

[1] Students should select a combination of core courses not to exceed 44 credits.

Beyond the core requirements, each student selects additional credits from a wide list of approved electives according to individual interest, allowing them to broaden their skillset or specialize in a particular aspect of environmental science.

Elective Requirement	BA	BS
Communication & Leadership	3-6 credits	N/A
Additional Skills and Concepts	6-15 credits	6-15 credits
Biological Sciences	3-12 credits	6-15 credits
Physical Sciences	N/A	3-15 credits
Human Dimensions	6-15 credits	3-9 credits
Total[1]	**28-31 credits**	**28-31 credits**

1 A minimum of 28 approved elective credits are required. Additional elective credits may be needed to reach 120 credit hours for degree completion.

Critical Tracking

Critical Tracking records each student's progress in courses that are required for progress toward each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites (https://cpm.flvc.org/advance-search/) may be used for transfer students.

Semester 1

- Complete 2 of 9 critical-tracking courses, excluding labs: AEC 3030C or SPC 2608, BSC 2010/BSC 2010L, BSC 2011/BSC 2011L, CHM 2045/CHM 2045L, ECO 2013, ECO 2023, MAC 1147, PHY 2020 or PHY 2004, STA 2023
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 2

- Complete 2 additional critical-tracking courses
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete 2 additional critical-tracking courses
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete 2 additional critical-tracking courses
- Complete at least 1 core course
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 5

- Complete all 9 critical-tracking courses
- Complete at least 2 core courses
- 2.5 GPA required for all critical-tracking courses
- 2.0 upper division GPA required
- 2.0 UF GPA required

Semester 6

- Complete at least 2 core courses
- 2.0 upper division GPA required
- 2.0 UF GPA required

Semester 7

- Complete at least 2 core courses
- 2.0 upper division GPA required
- 2.0 UF GPA required

Semester 8

- Complete EVS 4021 (capstone) and the remaining courses for the degree
- 2.0 upper division GPA required
- 2.0 UF GPA required

Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Course	Title	Credits
Semester One		
Quest 1 (Gen Ed Humanities with International) [1]		3
BSC 2010 & 2010L	Integrated Principles of Biology 1 and Integrated Principles of Biology Laboratory (**Critical Tracking**; State Core Gen Ed Biological and Physical Sciences)	4
EVS 1010	First Year Environmental Science [2]	1
MAC 1147	Algebra and Trigonometry (**Critical Tracking**; State Core Gen Ed Mathematics) [1]	4
Gen Ed Composition (according to placement)		3
	Credits	**15**
Semester Two		
BSC 2011 & 2011L	Integrated Principles of Biology 2 and Integrated Principles of Biology Laboratory 2 (**Critical Tracking**; State Core Gen Ed Biological and Physical Sciences)	4
CHM 2045 & 2045L	General Chemistry 1 and General Chemistry Laboratory (**Critical Tracking**; State Core Gen Ed Biological and Physical Sciences)	4
Civic Literacy Requirement (recommended: POS 2041)		3
State Core Gen Ed Humanities (http://catalog.ufl.edu/UGRD/academic-programs/general-education/#genedcoursestext)		3
	Credits	**14**
Semester Three		
Quest 2 (Gen Ed Social & Behavioral Sciences or Gen Ed Biological Sciences and Physical Sciences) [1]		3
AEC 3030C or SPC 2608	Effective Oral Communication (**Critical Tracking**) or Introduction to Public Speaking	3
ECO 2013	Principles of Macroeconomics (**Critical Tracking**; State Core Gen Ed Social and Behavioral Sciences)	4
STA 2023	Introduction to Statistics 1 (**Critical Tracking**; Gen Ed Mathematics)	3
Earth and Soil Science Core course		3-4
	Credits	**16-17**
Semester Four		
ECO 2023	Principles of Microeconomics (**Critical Tracking**; Gen Ed Social and Behavioral Sciences)	4
ENC 2256	Writing in the Disciplines (Writing in Environmental Science; Gen Ed Composition)	3
EVS 3000 & 3000L	Environmental Science 1 and Environmental Science Laboratory	4
Select one:		3
PHY 2004	Applied Physics 1 (**Critical Tracking**; Gen Ed Physical Sciences)	
PHY 2020	Introduction to Principles of Physics (**Critical Tracking**; Gen Ed Physical Sciences)	
General Ecology Core course		3-4
	Credits	**17-18**
Semester Five		
EVS 3500	Environmental Science 2	3
Environmental Ethics Core course		3
Environmental Policy and Law Core course		3

Resource Economics Core course		3-4
Natural Resource Management Core course		3-4
	Credits	**15-17**
Semester Six		
Environmental Policy and Law Core course		3
Global and Hydrologic Systems Core course		3-4
Social Science Perspectives Core course		3
Electives for the major [3]		6
	Credits	**15-16**
Semester Seven		
Electives for the major [3]		15
	Credits	**15**
Semester Eight		
EVS 4021	Critical Thinking in Environmental Science (**Critical Tracking**)	3
Electives for the major (as needed) [3]		8-11
	Credits	**11-14**
	Total Credits	**120**

1 One of the courses selected to meet the Quest 1, Quest 2, and State Core Humanities requirements should be chosen to simultaneously meet the International requirement.

2 Required for all summer B and fall freshman admits, including HSAA students admitted as freshmen. Transfer students should enroll in ALS 4932 instead. PaCE and all other students should contact their academic advisor or undergraduate coordinator for alternate options.

3 A minimum of 28 elective credit hours are required from the Approved Electives list or by approval from the undergraduate coordinator. Additional elective credit may be needed to reach 120 credit hours for degree completion.

Core Requirements

BACHELOR OF ARTS

The Bachelor of Arts degree in environmental science focuses on the social sciences that connect the natural sciences and engineering to society. Emphasis is placed in the areas of environmental policy & law and resource economics, making the B.A. the preferred degree for students interested in the policy aspects of environmental consulting and public agency work or advancing to law school.

Core Requirements for the Bachelor of Arts

Students should select a combination of core courses not to exceed 44 credit hours.

Code	Title	Credits
Required Foundation Courses		
EVS 1010	First Year Environmental Science [1]	1
ENC 2256	Writing in the Disciplines (Writing in Environmental Science; Gen Ed Composition)	3
EVS 3000	Environmental Science 1	4
& 3000L	and Environmental Science Laboratory	
EVS 3500	Environmental Science 2	3
Environmental Ethics		
Select one:		3
AEB 4126	Agricultural and Natural Resource Ethics (Writing Requirement; 6000 words.)	
AEC 3322	Moral Leadership in Agriculture and Natural Resources	
ANT 4403	Environment and Cultural Behavior	
EVR 3004	Eco-Civic Engagement	
PSY 3626	Psychology of Sustainability	
REL 2104	Environmental Ethics (Gen Ed Humanities;Writing Requirement; 2000 words.)	
General Ecology		**3-4**
PCB 4043C	General Ecology (Gen Ed Biological Sciences)	
or WIS 3404	Natural Resource Ecology	
Earth and Soil Science		
Select one:		3-4
GEO 2200	Dynamic Planet Earth	
& 2200L	and Dynamic Planet Earth Laboratory (Gen Ed Physical Sciences)	
GLY 2010C	Physical Geology (Gen Ed Physical Sciences)	
GLY 2030C	Environmental and Engineering Geology (Gen Ed Physical Sciences)	

SWS 3022 & 3022L	Introduction to Soils in the Environment and Introduction to Soils in the Environment Laboratory (Gen Ed Physical Sciences)	
Global and Hydrologic Systems		
Select one:		3-4
AOM 4643	Environmental Hydrology: Principles and Issues	
BSC 3307C	Climate Change Biology	
FNR 4343C	Forest Water Resources	
GEO 3250	Climatology (Gen Ed Physical Science)	
GEO 3334	Managing for a Changing Climate (Gen Ed Physical Science and International)	
GLY 3074	Oceans and Global Climate Change	
GLY 3882C	Hydrogeology and Human Affairs (Gen Ed Physical Science)	
OCE 1001	Introduction to Oceanography	
SWS 4244	Wetlands	
Environmental Policy and Law		
Select two:		6
AEB 4123	Agricultural and Natural Resource Law	
AEB 4282	International Humanitarian Assistance (Gen Ed International)	
AEB 4283	International Development Policy	
FNR 4660	Natural Resource Policy and Economics	
Natural Resource Management		
Select one:		3-4
ALS 3133	Agricultural and Environmental Quality	
EVR 3323	Introduction to Ecosystem Restoration	
FAS 4305C	Introduction to Freshwater Fishery Science	
FNR 4624C	Field Operations for Management of Ecosystems	
FNR 4080	Sustainable Ecotourism Development	
GEO 3372	Conservation of Resources	
IPM 3022	Fundamentals of Pest Management	
SWS 4116	Environmental Nutrient Management	
SWS 4233	Soil and Water Conservation	
SWS 4245	Water Resource Sustainability	
WIS 4523	Human Dimensions of Natural Resource Conservation	
Resource Economics		**3-4**
AEB 3450	Introduction to Natural Resource and Environmental Economics (Gen Ed Social and Behavioral Sciences)	
or ECP 3302	Environmental Economics and Resource Policy	
Social Science Perspectives		
Select one:		3
ANT 2402	Anthropology of Sustainability	
BCN 1582	International Sustainable Development (Gen Ed Social and Behavioral Science and International)	
GEO 4033	Climate Change and Health	
GEO 4034	Weather, Climate, and Society	
IDS 2154	Facets of Sustainability	
SYD 4020	Population	
WIS 4551	Diverse Perspectives in Conservation	
WST 3610	Gender, Race and Science	
Required Capstone Course		
EVS 4021	Critical Thinking in Environmental Science	3
Total Credits		**41-46**

[1] Required for all Summer B and Fall freshman admits, including HSAA students admitted as freshmen. Transfer students should enroll in ALS 4932 instead. PaCE and all other students should contact their academic advisor or undergraduate coordinator for alternate options.

Approved Electives

Beyond the core requirements, each student selects additional credits from a wide list of approved electives according to individual interest, allowing students to broaden their skillset or specialize in a particular aspect of environmental science.

Elective Requirement

- Communication & Leadership 3-6 credits
- Additional Skills and Concepts 6-15 credits
- Biological Sciences 3-12 credits
- Human Dimensions 6-15 credits

A minimum of 28 approved elective credits are required. Additional elective credit may be needed to reach 120 credit hours for degree completion.

Students interested in taking courses not on the master list, including requirements for pre-Veterinary and pre-Medical students, must contact the undergraduate coordinator for approval.

Students can substitute appropriate graduate courses for electives with approval of the undergraduate coordinator and permission of the instructor. To substitute a 5000-level course or higher, the student must have senior standing and a minimum upper division GPA of 3.0.

Master List

Code	Title	Credits
Communication & Leadership		
Select 3-6 credits		
AEC 3043	Communication and Leadership for Agricultural and Life Sciences Policy Issues	3
AEC 3071	Social Media Strategy and Leadership for Agricultural and Life Sciences	3
AEC 3073	Intercultural Communication (Gen Ed International)	3
AEC 3209	Instructional and Event Planning in Agricultural and Life Sciences	3
AEC 3413	Working with People: Interpersonal Leadership Skills	3
AEC 3414	Leadership Development	3
AEC 4434	Communication and Leadership in Groups and Teams	3
AEC 4465	Global Leadership (Gen Ed Social and Behavioral Science and International)	3
ALS 3415	Challenge 2050: Developing Tools for Changing the World	3
Biological Sciences		
Select 3-12 credits		
AGR 3303	Genetics (Gen Ed Biological Science)	3
ALS 3153	Agricultural Ecology	3
ALS 4162	Consequences of Biological Invasions	3
ANT 3514C	Introduction to Biological Anthropology	4
BOT 2011C	Plant Diversity	4
BOT 2710C	Practical Plant Taxonomy	3
BOT 3151C	Local Flora of North Florida	3
BSC 4821C	Evolutionary Biogeography	3
ENY 3005 & 3005L	Principles of Entomology and Principles of Entomology Laboratory	4
ENY 4201	Insect Ecology	3
ENY 4202	Ecology of Vector-Borne Disease	3
ENY 4208	Ecology and Conservation of Pollinators	3
ENY 4161	Insect Classification	3
ENY 4210	Insects and Wildlife	3
ENY 4455C	Social Insects	3
ENY 4571	Honey Bee Biology	3
FAS 4105C	Field Ecology of Aquatic Organisms	3
FAS 4175	Algae Biology and Ecology	3
FAS 4270	Marine Ecological Processes	3
FAS 4271C	Invasion Ecology of Aquatic Animals	3
FAS 4274	Freshwater Ecology	3
FAS 4364	Marine Adaptations: Environmental Physiology	3
FNR 3131C	Dendrology/Forest Plants	3
FNR 3500C	Forest Ecology (Gen Ed Biological Science)	3
FNR 3622	Fire Ecology and Management	2
FNR 4010	Ecology and Restoration of Longleaf Pine Ecosystems	3
GEO 4300	Environmental Biogeography	3
PCB 2441	Biological Invaders	3
PCB 3063	Genetics	4
PCB 3402	Disease Ecology and Evolution	3
PCB 4674	Evolution	4

PCB 3601C	Plant Ecology	3
PCB 4553	Population Genetics	4
PCB 4674	Evolution	4
PLP 4653C	Basic Fungal Biology	4
PLS 3004C	Principles of Plant Science	3
VME 4013	Aquatic Wildlife Health Issues	3
VME 4016	Manatee Health and Conservation	3
WIS 3402 & 3402L	Wildlife of Florida and Wildlife of Florida Laboratory	4
WIS 3410	The Ecology of Climate Change	3
WIS 3553C	Introduction to Conservation Genetics	4
WIS 4203C	Landscape Ecology and Conservation	3
WIS 4424	Large Mammal Ecology and Management	3
WIS 4454	Ecology of Bird Introductions and Invasions	3
WIS 4501	Introduction to Wildlife Population Ecology	3
ZOO 4050	Animal Behavior	3
ZOO 4205C	Invertebrate Biodiversity	4
ZOO 4307C	Vertebrate Biodiversity	4
ZOO 4403C	Marine Biology	4
ZOO 4405	Sea Turtle Biology and Conservation	3
ZOO 4472C	Avian Biology	4
Human Dimensions		
Select 6-15 credits		
Any courses listed under Natural Resource Management, Environmental Ethics Core, Environmental Policy & Law Core, and Social Science Perspectives not counted towards the core requirement, as well as:		
AEB 4085	Agricultural Risk Management and the Law	3
ALS 3940	Challenge 2050: the Experience	3
AMH 3630	American Environmental History	3
BSC 3402	Theory and Practice in the Biological Sciences	2
BSC 4055	Climate Change and Human Systems	3
CLA 2521	Classical Antiquity and Sustainability	3
DCP 3210	Sustainable Solutions for the Built Environment	3
DCP 3220	Social and Cultural Sustainability and the Built Environment	3
FNR 3602	Society and Natural Resources	3
FNR 4304C	Urban Forestry	3
FYC 3401	Introduction to Social and Economic Perspectives on the Community	3
FYC 3521	Community Food Systems	3
GEA 2270	Geography of Florida (6000 words)	3
GEA 3500	Geography of Europe (Gen Ed Social and Behavioral Science and International)	3
GEA 2601	Geography of Africa (Gen Ed Social and Behavioral Science and International; 6000 Words)	3
GEA 4465	Amazonia	3
GEO 2006	Natural Hazards Geography (Gen Ed Social and Behavioral Science and International)	3
GEO 2315	Hungry Planet: Global Geographies of Food (Gen Ed Biological Science)	3
GEO 2500	Global and Regional Economies (Gen Ed Social and Behavioral Science; 6000 Words)	3
GEO 3352	The Human Footprint on Landscape	3
GEO 3427	Plants, Health and Spirituality	3
GEO 3430	Population Geography (Gen Ed Social and Behavioral Science)	3
GEO 3502	Economic Geography (Gen Ed Social and Behavioral Science; 6000 Words)	3
HIS 3465	The Scientific Revolution	3
PHC 4320	Environmental Concepts in Public Health	3
PHI 3400	Philosophy of Natural Science (Gen Ed Humanities)	3
POS 2112	American State and Local Government	3
PSY 4625	The Psychology of Pseudoscience	3
REL 3160	Religion and Science	3
SWS 4231C	Soil, Water and Land Use	3
SWS 4550	Soils, Water and Public Health	3
SYA 4930	Special Study (Climate Change & Society)	3
SYD 3395	Sociology of Globalization	3
SYO 4530	Social Inequality	3
WST 4002	Data Feminisms	3
WST 4349	Ecofeminism	3
SYA 4930	Special Study (Introduction to Conservation Criminology)	3

WOH 3404	Global History of Energy	3
Additional Skills and Concepts		
Any courses listed under Global and Hydrologic Systems Core not counted towards the core requirement, as well as:		
Select 6-15 credits		
Business Management & Finance		
ACG 2021	Introduction to Financial Accounting	
AEB 3133	Principles of Agribusiness Management	
AEC 4500	Program Development and Evaluation	
BUL 4310	The Legal Environment of Business	
FIN 3403	Business Finance	
MAN 3025	Principles of Management	
Economics		
ECO 3101	Intermediate Microeconomics	
ECO 3203	Intermediate Macroeconomics	
ECO 3704	International Trade	
FAS 4363	Marine Protected Areas	
Introductory GIS [1]		
FNR 3400C	Forest Resources Information Systems	
GIS 3043	Foundations of Geographic Information Systems	
GIS 3072C	Geographic Information Systems	
SWS 4720C	GIS in Soil and Water Science	
URP 4273	Survey of Planning Information Systems	
Environmental Technology		
AOM 4521	Introduction to Biofuels	
HOS 3281C	Organic and Sustainable Crop Production	
Additional Math and Statistics		
MAC 2233	Survey of Calculus 1 (Gen Ed Mathematics)	
MAC 2311	Analytic Geometry and Calculus 1 (Gen Ed Mathematics)	
STA 3024	Introduction to Statistics 2	
STA 3100	Programming With Data in R	
Methods		
FNR 3410C	Natural Resource Sampling	
GIS 3001C	Geovisualization and Map Design	
GIS 4021C	Aerial Photo Interpretation	
GIS 4037	Digital Image Processing	
GIS 4324	GIS Analysis of Hazard Vulnerability	
PLS 4613	Aquatic Weed Control	
SWS 4800	Environmental Soil and Water Monitoring Techniques	
SYA 4300	Methods of Social Research	
Additional Concepts		
AGR 4212	Alternative Cropping Systems	
CHM 2046 & 2046L	General Chemistry 2 and General Chemistry 2 Laboratory	
EES 3008	Energy and Environment	
EVS 4905	Individual Study in Environmental Science	
EVS 4911	Supervised Research in Environmental Science	
EVS 4915	Honors Thesis Research in Environmental Science	
EVS 4932	Special Topics in Environmental Science	
EVS 4949	Environmental Science Internship [3]	
FNR 4070C	Environmental Education Program Development	
GEO 2242	Extreme Weather (Gen Ed Physical Science)	
GIS 2114	The World & Big Data	
SWS 4204	Urban Soil and Water Systems	
URP 4000	Preview of Urban and Regional Planning	

1 Students should not enroll in more than one of the following courses: FNR 3400C, GIS 3043, GIS 3072C, URP 4273, SWS 4720C.

2 No more than six credit hours from any combination of these courses (or equivalents) may be counted towards the degree.

3 Not all classes offered under this course number may be eligible for Additional Skills and Concepts credit. Check with your advisor or undergraduate coordinator.

Academic Learning Compact

Environmental Science is the science of humanity's role in natural systems, the basis of our economy. This program accesses courses university-wide and provides numerous opportunities for international study. Students will acquire reliable knowledge and interdisciplinary perspectives of complex environmental issues, gaining the full range of knowledge relevant to a professional understanding of complex environmental problems in the biological and physical sciences, ethics, economics, policy, and law.

Before Graduating Students Must

- Complete at least one course in each of the foundation areas.
- Complete requirements for the baccalaureate degree, as determined by faculty.

Students in the Major will Learn To

Student Learning Outcomes | SLOs

Content

1. Apply acquired knowledge of basic terminology, concepts, methodologies, and theories in the physical and biological sciences that describe environmental systems.
2. Apply acquired knowledge of essential concepts in the social sciences that describe human activity in the environment.

Critical Thinking

3. Develop reasoned solutions to environmental problems through application of the scientific method.

Communication

4. Communicate knowledge, ideas, and reasoning clearly, effectively, and objectively in both written and oral forms.

Curriculum Map

I = Introduced; R = Reinforced; A = Assessed

Courses	SLO 1	SLO 2	SLO 3	SLO 4
ENC 3254				I
EVS 3500				
EVS 3000 and EVS 3000L	I	I	I	R
EVS 4021	A	A	A	A
Earth and Soil Sciences	R			
General Ecology	R		R	
Environmental Ethics		R		R
Environmental Policy & Law		R		R
Global and Hydrologic Systems	R		R	
Natural Resource Management	R	R	R	
Resource Economics		R		R
Social Science Perspectives		R		R
Electives	R	R	R	R

ASSESSMENT TYPES

- Oral presentation or written essay