UCONN | COLLEGE OF AGRICULTURE, HEALTH AND NATURAL RESOURCES

PLAN OF STUDY
Catalog Year 2025-2026
ENVIRONMENTAL SCIENCES MAJOR

This Plan of Study (plan) is used as a *worksheet* during initial registration and every subsequent semester to determine minimum requirements and progress toward completing the degree.

- In your final year, you will submit a final plan of study electronically through the Student Administration System. For more information, visit the **Registrar's Steps to a Successful Graduation**.
- Students must complete all major and General Education or Common Curriculum course requirements and earn:
  - **At least 120 credits towards the degree**
  - **At least a 2.0 Cumulative Grade Point Average (CGPA)**
  - **At least a 2.0 Grade Point Average for ALL courses listed in the 36 credit Requirement (Part III).**
- University of Connecticut Common Curriculum Requirements are outlined in the Undergraduate Academic Catalog.
- Students should use their Academic Requirements Report (accessible in Student Admin) along with this Plan of Study to view their graduation requirements and assess status toward degree. Students must be attentive to credit restrictions (repeated courses, out of sequence classes, etc.).
- Courses taken Pass/Fail may NOT be used to meet ANY degree requirements, including major requirements, General Education requirements, or Common Curriculum requirements.
- Students are responsible for knowing and understanding the rules and requirements of their degree. Always refer to the Catalog (linked above) for official regulations and ask your advisor when you need clarification.

Additional Resources:

Academic Catalog	CAHNR Academic Policies	CAHNR Academic Forms	Sample Course Sequences by Major
Navigating the Student Admin System	Navigating HuskyCT	Academic Achievement Center	Center for Career Readiness and Life Skills
The "Q" (Quantitative) Center	The Writing Center	Center for Students with Disabilities	The Dean of Student's Office

PART I: COMMON CORE CURRICULUM REQUIREMENTS

For a full listing of courses within each Topic of Inquiry (TOI), please visit the Common Curriculum page of the Undergraduate Catalog.

Common Curriculum Requirements – Undergraduate Academic Catalog

Topics of Inquiry

Requirements:

1. At least three credits must be passed in each Topic of Inquiry (many courses fulfill two TOI).
2. Students must also satisfy a Focus requirement by successfully completing either nine credits in a single TOI or nine credits within a Theme (learn more about Themes on the Common Curriculum page of the Undergraduate Catalog – linked above).
3. Common Curriculum courses may be counted toward the major.
4. Including the Focus requirement, students must pass at least 21 credits of TOI courses.
5. The 21 credits of TOI courses must be from at least six different subject areas as designated by subject code (e.g., ANTH). For cross-listed courses, students may count any subject code under which the course is offered toward this requirement regardless of the subject code under which they register for the course.
6. Students must complete at least one laboratory course designated as TOI-6L.
7. No more than six credits with the INTD prefix may be elected by any student to meet the Common Curriculum Requirements.

TOI-1: Creativity: Design, Expression, Innovation
TOI-2: Cultural Dimensions of Human Experiences
TOI-3: Diversity, Equity, and Social Justice
TOI-4: Environmental Literacy
TOI-5: Individual Values and Social Institutions
TOI-6: Science and Empirical Inquiry
TOI-6L: Science and Empirical Inquiry (Laboratory Course)

TOI	Dept.	Course No.	Credits
TOI-1	_____	_____	_____
TOI-2	_____	_____	_____
TOI-3	_____	_____	_____
TOI-4	_____	_____	_____
TOI-5	_____	_____	_____
TOI-6*	_____	_____	_____

**At least one TOI-6L course is required*

FOCUS REQUIREMENT		
TOI: _____		
-- OR --		
THEME: _____		
Dept.	Course No.	Credits
_____	_____	_____
_____	_____	_____
_____	_____	_____

TOI REQUIREMENTS CHECKLIST:

- ☐ At least three credits from each TOI
- ☐ 21 credits (minimum) of TOI coursework
- ☐ TOI credits completed in at least 6 different subject codes (e.g. ANTH)
    - ☐ Subject codes: _____ , _____ , _____ , _____ , _____ , and _____
- ☐ One Laboratory course designated as TOI-6L: _____

Competencies

	Description	Dept.	Course No.	Credits
☐	Foreign Languages (3 years single language in high school OR pass second course in first year college sequence)	_____	_____	_____
☐	ENGL 1007 or 1010 or 1011	_____	_____	_____
☐	"W" Course	_____	_____	_____
☐	"W" Course *(within major)*	_____	_____	_____
☐	"Q" Course	_____	_____	_____
☐	"Q" Course *(MATH or STAT)*	_____	_____	_____

CAHNR Agriculture, Health, and Environment Requirement

Students in the College of Agriculture, Health, and Natural Resources must pass two courses (six credits) from the pre-approved list (find the list of pre-approved courses on the CAHNR Degree Requirements page of the Undergraduate Catalog). Courses must come from two different subject areas.

CAHNR Requirement Pre-Approved Courses List

Dept.	No.	Course Title	Credits
_____	_____	_____	_____
_____	_____	_____	_____

PART II: INDIVIDUAL COURSE REQUIREMENTS OF ENVIRONMENTAL SCIENCES MAJOR

Courses in this section that are numbered 2000-level or above may also be used to meet the 36 Credit Requirement (Part III).

ALL of required courses in Basic (Natural) Sciences:

Dept.	No.	Course Title	Credits
BIOL	□ 1108	Principles of Biology II	4
CHEM	□ 1124Q, 1125Q, and 1126Q □ or 1127Q and 1128Q	Fundamentals of General Chemistry I and II or General Chemistry I and II	_____
MATH	□ 1131Q	Calculus I	4
MATH	□ 1132Q	Calculus II	4
PHYS	□ 1201Q and 1202Q □ or 1401Q and 1402Q	General Physics I and II General Physics with Calculus	8
STAT	□ 1000Q □ or 1100Q □ or 3025Q	Intro to Statistics I or Elementary Concepts of Statistics or Statistical Methods (Calculus Level 1	_____
NRE	□ 1000E	Environmental Science	3

*__ARE 1150__, __ECON 1200__ or __1201__, __ERTH 1050__, __GEOG 2300E__, and __MARN 1002E__ are pre-requisites for several upper division course concentration options. It is the student's responsibility to ensure that all pre-requisites in the catalog for concentration courses have been satisfied.

Required Sophomore Seminar Course:

Dept.	No.	Course Title	Credits
ENVS	□ 2000	Integrating Humans and the Environment	3

Required Capstone Course:

Dept.	No.	Course Title	Credits
NRE	□ 4000W	Natural Resources Planning and Management	3

Required Internship or Research Experience (1-6 credits): *(approved by advisor)*

Dept.	No.	Course Title	Credits
_____	_____	_____	_____

Writing Competency: Students must pass NRE 4000W for required 2000-level or above course approved by major.
Computer Technology Competency: Students must pass NRE 4000W.
Information Literacy Competency: Students must pass NRE 4000W

In addition, all students majoring in Environmental Sciences must declare and fulfill the requirements of a concentration in a discipline associated with the program before graduation. A minimum of 24-credits is required within a declared concentration.

Approved concentrations are listed below:

SUSTAINABLE SYSTEMS CONCENTRATION

Students must complete at least two courses from each of the following Knowledge Competencies. The same course cannot be used to fulfill more than one knowledge competency.

Resource Management – TWO of the following:

Dept.	No.	Course Title	Credits
EEB	□ 2208E	Introduction to Conservation Biology	3
GEOG	□ 3340	Environmental Planning and Management	3
MARN	□ 3030	Coastal Pollution and Bioremediation	3
NRE	□ 2010	Natural Resources Measurements	3
NRE	□ 2215E	Introduction to Water Resources	3
NRE	□ 2345	Introduction to Fisheries and Wildlife	3
NRE	□ 2550	Nature-based Outdoor Recreation Resource Management	3
NRE	□ 2600E	Global Sustainable Natural Resources	3
NRE	□ 3105	Wetlands Biology and Conservation	3
NRE	□ 3125	Watershed Hydrology	3
NRE	□ 3305	African Field Ecology & Renewable Resource Mgmt.	4
NRE	□ 3335	Wildlife Management	3
NRE	□ 3345/W	Wildlife Management Techniques	4
NRE	□ 3500	Exurban Silviculture	4
NRE	□ 3535	Remote Sensing of the Environment	3
NRE	□ 4180	Climate Change Adaptation Science	3
NRE	□ 4255	Water Quality Management	3
NRE	□ 4335	Fisheries Management	4
PLSC	□ 2100E	Environmental Sustainability of Food Production in Developed Countries	3

Ecological Systems – TWO of the following:

Dept.	No.	Course Title	Credits
EEB	□ 2100E	Global Change Ecology	3
EEB	□ 2222E	Plants in a Changing World	3
EEB	□ 2244E/WE	General Ecology	_____
EEB	□ 4230W	Methods of Ecology	4
EEB/MARN	□ 3230/3014	Marine Biology	3
GEOG	□ 4340	Biogeography	3
NRE	□ 2455	Forest Ecology	3
NRE	□ 4150	Ecosystem Science and Management	3
NRE	□ 4205	Stream Ecology	3
NRE	□ 4340	Ecotoxicology	3

Built Systems – ONE of the following:

Dept.	No.	Course Title	Credits
AH	□ 3175E	Environmental Health	3
ENVS/EVST/ENVE	□ 3110E	Brownfield Redevelopment	3
GEOG	□ 2400E	Introduction to Sustainable Cities	3

LAND	□ 3230WE	Sustainable Environmental Planning & Landscape Design	3
NRE	□ 3265	Sustainable Urban Ecosystems	3
NRE	□ 4425	Urban and Community Forestry	3
PLSC	□ 3550	Urban Plant Systems Construction and Maintenance	3

Governance and Policy – ONE of the following:

Dept.	No.	Course Title	Credits
ARE	□ 2434E	Environmental and Resource Policy	3
ARE	□ 3437E	Marine Fisheries Economics and Policy	3
ARE	□ 4438E	Environmental and Resource Economics	3
ARE	□ 4462E	Environmental and Resource Economics	3
ECON/MAST	□ 2467E	Economics of the Oceans	3
ENVS/EVST/ENVE	□ 3100	Climate Resilience and Adaptation: Municipal Policy and Planning	3
GEOG	□ 3320W	Environmental Evaluation & Assessment	3
MAST/POLS	□ 3832	Maritime Law	3
NRE	□ 3000	Human Dimensions of Natural Resources	3
NRE	□ 3201	Conservation Law Enforcement	3
NRE	□ 3245E	Environmental Law	3
POLS	□ 3412	Global Environmental Politics	3
SOCI	□ 2707/W	Energy, Environment, and Society	3

Ethics, Values, and Culture – ONE of the following:

Dept.	No.	Course Title	Credits
ENGL	□ 2635E	Literature and the Environment	3
ENGL	□ 3240E	American Nature Writing	3
ENGL	□ 3715E	Nature Writing Workshop	3
GEOG	□ 3410E	Human Modifications of Natural Environments	3
GERM	□ 2400E	The Environment in German Culture	3
HIST	□ 2222E	Global Environmental History	3
HIST	□ 3540E	Environmental History of the Americas	3
HIST	□ 3542E	New England Environmental History	3
HIST/MAST	□ 2210E	History of the Ocean	3
JOUR	□ 3046E	Environmental Journalism	3
LAND	□ 2210E	The Common (Shared) Landscape of the USA	3
PHIL	□ 3212E	Philosophy and Global Climate Change	3
PHIL	□ 3216E	Environmental Ethics	3
SOCI	□ 2701E	Sustainable Societies	3
SOCI	□ 2705E	Sociology of Food	3
SOCI	□ 2709E/WE	Society and Climate Change	3

SOCI	□ 2707/W	Energy, Environment, and Society	3

Economics and Business – ONE of the following:

Dept.	No.	Course Title	Credits
ARE	□ 4305	Sustainable Economic Development	3
ARE	□ 4438E	Valuing the Environment	3
ARE	□ 4444	Economics of Energy, Climate, and the Environment	3
ARE	□ 4462E	Environmental and Resource Economics	3
ECON/MAST	□ 2467E	Economics of the Oceans	3
ECON	□ 3466E	Environmental Economics	3
ECON	□ 3473	Economic Development	3

GLOBAL CHANGE CONCENTRATION

Students must complete at least two courses from each of the following Knowledge Competencies. The same course cannot be used to fulfill more than one knowledge competency.

Climate Change and its Impacts - TWO of the following:

Dept.	No.	Course Title	Credits
ERTH	□ 2010	Earth History and Global Change	3
ERTH	□ 2800E	Our Evolving Atmosphere	3
ERTH	□ 3850	Paleoclimatology	3
GEOG	□ 3400	Climate and Weather	3
MARN	□ 3000E	The Oceans and Global Climate	3
NRE	□ 2146	Climatology	3
NRE	□ 2600E	Global Sustainable Natural Resources	3
NRE	□ 3115	Air Pollution	3
NRE	□ 4170	Climate-Human-Ecosystem Interactions	3
NRE	□ 4180	Climate Change Adaptation Science	
PLSC	□ 2100E	Environmental Sustainability of Food Production in Developed Countries	3
PLSC	□ 2500E	Principles and Concepts of Agroecology	3

Land and Ocean Use and its Impacts - TWO of the following:

Dept.	No.	Course Title	Credits
EEB	□ 2100E	Global Change Ecology	3
EEB	□ 2208E	Introduction to Conservation Biology	3
EEB	□ 2222E	Plants in a Changing World	3
ERTH	□ 2020	Earth Surface Processes	3
ERTH/MARN	□ 2230	Beaches and Coasts	3
ERTH/GEOG	□ 2310E	Creating and Sustaining National Parks	3
ERTH	□ 4240	Watersheds and Environmental Change	3
ERTH	□ 4740	Energy Resources: Past, Present, and Future	3

GEOG	□ 3410E	Human Modifications of Natural Environments	3
MARN	□ 3001	Foundations of Marine Sciences	4
MARN	□ 3030	Coastal Pollution and Bioremediation	3
MARN	□ 4066	River Influences on the Marine Environment	3
NRE	□ 2215E	Introduction to Water Resources	3
NRE	□ 2345	Introduction to Fisheries and Wildlife	3
NRE	□ 2600E	Global Sustainable Natural Resources	3
NRE	□ 3105	Wetlands Biology and Conservation	3
NRE	□ 3115	Air Pollution	3
NRE	□ 4255	Water Quality Management	3
NRE	□ 4340	Ecotoxicology	3
NRE/ERTH	□ 4135/4735	Introduction to Ground Water Hydrology	4

Natural Science - TWO of the following:

Dept.	No.	Course Title	Credits
CHEM	□ 4370	Environmental Chemistry - Atmosphere	3
CHEM	□ 4371	Environmental Chemistry - Hydrosphere	3
EEB	□ 2244E/WE	General Ecology	4
EEB	□ 2245/W	Evolutionary Biology	4
EEB/MARN	□ 3230/3014	Marine Biology	3
EEB/ERTH	□ 4120	Paleobiology	4
ERTH	□ 3110	Sedimentology and Stratigraphy	3
ERTH	□ 3210	Glacial Processes and Materials	3
ERTH	□ 4440	Dates and Rates in Earth and Environmental Science	3
ERTH	□ 4720	Environmental Geochemistry	3
GEOG	□ 2300E	Introduction to Physical Geography	3
GEOG	□ 4340	Biogeography	3
MARN	□ 4030W	Chemical Oceanography	3
MARN	□ 4060	Physical Oceanography	3
MARN	□ 4202Q	Models of the Ocean Carbon Cycle	4
NRE	□ 2455	Forest Ecology	3
NRE	□ 3125	Watershed Hydrology	3
NRE	□ 3145	Meteorology	3
NRE	□ 4150	Ecosystem Science & Management	3
NRE	□ 4205	Stream Ecology	3
PLSC	□ 2120	Environmental Soil Science	3
PLSC	□ 3420	Soil Chemistry Components	4

Methods - ONE of the following:

Dept.	No.	Course Title	Credits
CE	□ 2251	Probability & Statistics in Civil & Envir. Engineering	3
CE/ENVE/ERTH	□ 3530/3530/3710	Engineering and Environmental Geology	3
EEB	□ 3266	Field Herpetology	3
EEB	□ 4100	Big Data Science for Biologists	4
EEB	□ 4230W	Methods of Ecology	4
EEB	□ 4262	Field Methods in Ornithology	3
ERTH	□ 4150	Applied Data Analysis in Earth Science	3
ERTH	□ 4430	Stable Isotope Biogeochemistry	3
ERTH	□ 4510	Applied and Environmental Geophysics	3
ERTH	□ 4710	Environmental Site Assessment	3
ERTH	□ 4810	Modeling the Changing Atmosphere and Ocean	3
ERTH/NRE	□ 4735/4135	Introduction to Ground Water Hydrology	4
GEOG	□ 2500	Introduction to Geographic Information Systems	4
GEOG/ERTH	□ 3430	GIS & Remote Sensing for Geoscience Applications	3
GEOG	□ 3500Q	Geographic Data Analysis	4
GEOG/MARN	□ 3505	Remote Sensing of Marine Geography	3
MARN	□ 4202Q	Models of the Ocean Carbon Cycle	4
NRE	□ 2000	Introduction to Geomatics	4
NRE	□ 2010	Natural Resources Measurements	3
NRE	□ 3305	African Field Ecology & Renewable Resources Mgmt.	4
NRE	□ 3345/W	Wildlife Management Techniques	4
NRE	□ 3385W	Fisheries Techniques	3
NRE	□ 3535	Remote Sensing of the Environment	3
NRE	□ 4335	Fisheries Management	4
NRE	□ 4475	Forest Management	4
NRE	□ 4535	Remote Sensing Image Processing	3
NRE	□ 4544	Land Surveying for Environmental Mgmt & Planning	3
NRE	□ 4665	Natural Resources Modeling	3
PHYS	□ 2400	Mathematical Methods for the Physical Sciences	3
STAT	□ 2215Q	Introduction to Statistics II	3
STAT	□ 3025Q	Statistical Methods	3

Governance & Policy - ONE of the following:

Dept.	No.	Course Title	Credits
ARE	□ 2434E	Environmental and Resource Policy	3

ARE	□ 3437E	Marine Fisheries Economics and Policy	3
ARE	□ 4438E	Valuing the Environment	3
ARE	□ 4462E	Environmental and Resource Economics	3
ECON/MAST	□ 2467E	Economics of the Oceans	3
ENVS/EVST/ENVE	□ 3100	Climate Resilience and Adaptation: Municipal Policy and Planning	3
EVST/POLS	□ 3412	Global Environmental Politics	3
GEOG	□ 3320W	Environmental Evaluation and Assessment	3
MAST/POLS	□ 3832	Maritime Law	3
NRE	□ 3000	Human Dimensions of Natural Resources	3
NRE	□ 3201	Conservation Law Enforcement	3
NRE	□ 3245E	Environmental Law	3
SOCI	□ 2707/W	Energy, Environment, and Society	3

ENVIRONMENTAL HEALTH CONCENTRATION

ALL of the following:

Dept.	No.	Course Title	Credits
AH	□ 3021	Environment, Genetics, and Cancer	3
AH	□ 3175E	Environmental Health	3
ANSC	□ 4341	Food Microbiology and Safety	3
BIOL	□ 1107	Principles of Biology I	4
NRE	□ 4340	Ecotoxicology	3

TWO of the following totaling 6 or more credits:

Dept.	No.	Course Title	Credits
AH	□ 3275	HAZWOPER	3
ENVS/EVST/ENVE	□ 3110E	Brownfield Redevelopment	3
ERTH	□ 4710	Environmental Site Assessment	3
MARN	□ 3030	Coastal Pollution and Bioremediation	3
MCB	□ 2400	Human Genetics	3
NRE	□ 3115	Air Pollution	3
NRE	□ 4255	Water Quality Management	3
PATH	□ 3700	Emerging Infectious Diseases and Pandemics	3
PATH	□ 4300	Principles of Pathology	4
PLSC	□ 2120	Environmental Soil Science	3

ONE of the following:

Dept.	No.	Course Title	Credits
AH	□ 3570	Health and Safety Management in the Workplace	3
AH	□ 3571	Health Hazards in the Workplace	3

AH	□ 3573	Health and Safety Standards in the Workplace	3
AH	□ 3574	Ergonomics	3
PSYC	□ 3105	Health Psychology	3
EEB	□ 3245	Evolutionary Medicine	3
ECON	□ 2451	Economic Behavior and Health Policy	3
GEOG	□ 3240	Health Geography: Connection People, Place and Health	3

PART III: 36 CREDIT REQUIREMENT FOR ALL MAJORS[1]

Each student is required to successfully complete at least 36 credits of courses that are numbered 2000-level or above in or relating to their major. These courses may also be used to meet other requirements. This group of courses must:

1. Total not less than 36 credits
2. Be numbered 2000 or above
3. Be approved by student's advisor and department head
4. Be taken at the University of Connecticut[2]
5. Include two or more departments
6. Include at least 15 credits from departments in the College of Agriculture, Health and Natural Resources
7. Have a combined Grade Point Average of at least 2.0
8. Not include more than 6 credits (combined) of Independent Study, Internship, or Field Studies (if included, these courses must be taken at the University of Connecticut)
9. Not be taken on Pass/Fail (P@ / F@)
10. Not include more than 6 credits of Satisfactory/Unsatisfactory (S/U) coursework

Dept.	No.	Credits

Dept.	No.	Credits

Credits from departments in CAHNR (15 required): _____

(CAHNR subject codes include AHNR, AH, ANSC, ARE, DGS, DIET, ENVS, EVST, KINS, LAND, MLSC, NRE, NUSC, PLSC, PATH, SPSS)

Total Credits in 36 credit group: _____

[1]Courses taken on Pass/Fail may NOT be used to meet any requirements.

[2]**Residence Requirement.** It is expected that advanced course work in the major will be completed at the University of Connecticut. However, students may be eligible to use up-to six credits from other institutions in the 36-credit group if approved by their advisor and department head. These credits must be identified as courses comparable to specific University of Connecticut courses and cannot include internships, special topics, or non-specific discipline credits. Transfer students must complete at least 30 credits of 2000-level or higher course work at the University of Connecticut, including at least 15 credits in College of Agriculture, Health and Natural Resources courses.