


PLAN OF STUDY Catalog Year 2025-2026 NATURAL RESOURCES 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* | _____ | _____ | _____ |

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

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

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 |
|--------------------------|---|-------|------------|---------|
| <input type="checkbox"/> | Foreign Languages (3 years single language in high school OR pass second course in first year college sequence) | _____ | _____ | _____ |
| <input type="checkbox"/> | ENGL 1007 <u>or</u> 1010 <u>or</u> 1011 | _____ | _____ | _____ |
| <input type="checkbox"/> | “W” Course | _____ | _____ | _____ |
| <input type="checkbox"/> | “W” Course (<i>within major</i>) | _____ | _____ | _____ |
| <input type="checkbox"/> | “Q” Course | _____ | _____ | _____ |
| <input type="checkbox"/> | “Q” Course (<i>MATH or STAT</i>) | _____ | _____ | _____ |

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 NATURAL RESOURCES 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 the following courses:

| Dept. | No. | Course Title | Credits |
|--------------------|---|---|---------|
| NRE | <input type="checkbox"/> 1000E | Environmental Science | 3 |
| NRE | <input type="checkbox"/> 2000 | Introduction to Geomatics | 4 |
| NRE | <input type="checkbox"/> 3000 | Human Dimensions of Natural Resources | 3 |
| NRE | <input type="checkbox"/> 4000W | Natural Resources Planning and management | 3 |
| NRE | <input type="checkbox"/> 4094 | Seminar | 1 |
| BIOL | <input type="checkbox"/> 1107 | Principles of Biology I | 8 |
| | <input type="checkbox"/> <u>or</u> 1108 | <u>or</u> Principles of Biology II | |
| | <input type="checkbox"/> <u>or</u> 1110 | <u>or</u> Introduction to Botany | |
| CHEM | <input type="checkbox"/> 1122 | Chemical Principles and Applications | 4 |
| | <input type="checkbox"/> <u>or</u> 1124Q | <u>or</u> Fundamentals of General Chemistry I | |
| | <input type="checkbox"/> <u>or</u> 1127Q | <u>or</u> General Chemistry I | |
| MATH | <input type="checkbox"/> 1060Q | Precalculus | _____ |
| | <input type="checkbox"/> <u>or</u> 1131Q | <u>or</u> Calculus I | |
| PLSC or ERTH | <input type="checkbox"/> 2120 <u>and</u> 2125 | Environmental Soil Science and Soils Lab | _____ |
| | <input type="checkbox"/> <u>or</u> 1050 | <u>or</u> Earth's Dynamic Environment | |
| PHYS | <input type="checkbox"/> 1201Q | General Physics I | 4 |
| | <input type="checkbox"/> <u>or</u> 1401Q | <u>or</u> General Physics with Calculus I | |
| STAT | <input type="checkbox"/> 1100Q | Elementary Concepts of Statistics | 4 |

Writing Competency: Students must pass NRE 4000W.

Computer Technology Competency: Students are expected to have gained additional computer technology competency in the fields of geographic information systems (GIS) and Global Positioning System (GPS) data collection and processing. Students will gain these competencies by passing NRE 2000.

Information Literacy Competency: Satisfied by required courses for major.

Natural Resource majors must also complete requirements for one or more of the following concentrations: Environmental Sustainability and Conservation (including the option for a pre-approved Education Abroad experience), Fisheries and Wildlife Conservation, Forest Resources, or Water Resources and Climate.

*At least one course in the 36-credit group must come from a department other than NRE.

ENVIRONMENTAL SUSTAINABILITY AND CONSERVATION CONCENTRATION**ALL of the following:**

| Dept. | No. | Course Title | Credits |
|-------------------|--|--|---------|
| ARE or ECON | <input type="checkbox"/> 1150 <input type="checkbox"/> or 1201 | Principles of Agricultural & Resource Economics or Principles of Microeconomics | 3 |
| NRE | <input type="checkbox"/> 1235E | Environmental Conservation | 3 |
| NRE | <input type="checkbox"/> 2600E | Global Sustainable Natural Resources | 3 |
| NRE or ARE | <input type="checkbox"/> 3245 <input type="checkbox"/> or 2434E | Environmental Law or Environmental and Resource Policy | 3 |

One course from each of the following four groups (the same course cannot be used to fulfill more than one group) or Education Abroad (12 credits or equivalent completed abroad of courses pre-approved by NRE).

Sustainability Concepts – ONE of the following:

| Dept. | No. | Course Title | Credits |
|-------|---------------------------------|--|---------|
| ENVE | <input type="checkbox"/> 1000E | Environmental Sustainability | 3 |
| NRE | <input type="checkbox"/> 3265 | Sustainable Urban Ecosystems | 3 |
| PLSC | <input type="checkbox"/> 2100E | Environmental Sustainability of Food Production in Developed Countries | 3 |
| SOCI | <input type="checkbox"/> 2701E | Sustainable Societies | 3 |
| SOCI | <input type="checkbox"/> 2707/W | Energy, Environment, and Society | 3 |

Economics and Social Science – ONE of the following:

| Dept. | No. | Course Title | Credits |
|-------|---------------------------------|---|---------|
| ARE | <input type="checkbox"/> 2525 | Sustainability Policy and Management | 3 |
| ARE | <input type="checkbox"/> 4438E | Valuing the Environment | 3 |
| ARE | <input type="checkbox"/> 4444 | Economics of Energy, Climate, and the Environment | 3 |
| ECON | <input type="checkbox"/> 2467E | Economics of the Oceans | 3 |
| ECON | <input type="checkbox"/> 3466E | Environmental Economics | 3 |
| GEOG | <input type="checkbox"/> 3320W | Environmental Evaluation and Assessment | 3 |
| GEOG | <input type="checkbox"/> 3340 | Environmental Planning and Management | 3 |
| PHIL | <input type="checkbox"/> 3216E | Environmental Ethics | 3 |
| POLS | <input type="checkbox"/> 3412 | Global Environmental Politics | 3 |
| POLS | <input type="checkbox"/> 3847 | The Policy-Making Process | 3 |
| SOCI | <input type="checkbox"/> 2701E | Sustainable Societies | 3 |
| SOCI | <input type="checkbox"/> 2707/W | Energy, Environment, and Society | 3 |

Natural Resources/Ecologic Science – ONE of the following:

| Dept. | No. | Course Title | Credits |
|-------------------|---|--|---------|
| EEB | <input type="checkbox"/> 2244E/WE | General Ecology | 4 |
| EEB or MARN | <input type="checkbox"/> 3230 <input type="checkbox"/> or 3014 | Marine Biology | 3 |
| MARN | <input type="checkbox"/> 3000E | The Oceans and Global Climate | 3 |
| NRE | <input type="checkbox"/> 2146 | Climatology | 3 |
| NRE | <input type="checkbox"/> 2455 | Forest Ecology | 3 |
| NRE | <input type="checkbox"/> 3105 | Wetlands Biology and Conservation | 3 |
| NRE | <input type="checkbox"/> 3125 | Watershed Hydrology | 3 |
| NRE | <input type="checkbox"/> 3145 | Meteorology | 3 |
| NRE | <input type="checkbox"/> 4180 | Climate Change Adaptation Science | 3 |
| NRE | <input type="checkbox"/> 4205 | Stream Ecology | 3 |
| NRE | <input type="checkbox"/> 4370 | Population Dynamics | 3 |
| PLSC | <input type="checkbox"/> 2500E | Principles and Concepts of Agroecology | 3 |

Resource Conservation and Management – ONE of the following:

| Dept. | No. | Course Title | Credits |
|-------|-------------------------------|--|---------|
| NRE | <input type="checkbox"/> 2550 | Nature-based Outdoor Recreation Resource Management | 3 |
| NRE | <input type="checkbox"/> 3305 | African Field Ecology and Renewable Resources Management | 4 |
| NRE | <input type="checkbox"/> 3335 | Wildlife Management | 3 |
| NRE | <input type="checkbox"/> 4170 | Climate-Human-Ecosystem Interactions | 3 |
| NRE | <input type="checkbox"/> 4255 | Water Quality Management | 3 |
| NRE | <input type="checkbox"/> 4335 | Fisheries Management | 4 |
| NRE | <input type="checkbox"/> 4475 | Forest Management | 4 |
| NRE | <input type="checkbox"/> 4665 | Natural Resources Modeling | 3 |

OR**12 credits equivalent completed abroad: (pre-approved by NRE)**

| Dept. | No. | Course Title | Credits |
|-------|-------|--------------|---------|
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |

FISHERIES AND WILDLIFE CONCENTRATION

ALL of the following:

| Dept. | No. | Course Title | Credits |
|-------|--|--|---------|
| EEB | <input type="checkbox"/> 2214 | Biology of Vertebrates | 3 |
| EEB | <input type="checkbox"/> 2244E/WE | General Ecology | 4 |
| NRE | <input type="checkbox"/> 2345 | Introduction to Fisheries and Wildlife | 3 |
| NRE | <input type="checkbox"/> 3335 | Wildlife Management | _____ |
| | <input type="checkbox"/> <u>or</u> 4335 | <u>or</u> Fisheries Management | |
| NRE | <input type="checkbox"/> 3345/W | Wildlife Management Techniques | 4 |
| | <input type="checkbox"/> <u>or</u> 3385W | <u>or</u> Fisheries Techniques | |
| NRE | <input type="checkbox"/> 4370 | Population Dynamics | 3 |

Taxonomy/Organismal-level – ONE of the following:

| Dept. | No. | Course Title | Credits |
|--------------|---|--|---------|
| ANSC | <input type="checkbox"/> 1111 | Principles of Animal Nutrition and Feeding | 3 |
| ANSC | <input type="checkbox"/> 3121 | Principles of Animal Genetics | 3 |
| EEB | <input type="checkbox"/> 3254 | Mammalogy | 4 |
| EEB | <input type="checkbox"/> 3265 | Herpetology | 4 |
| EEB | <input type="checkbox"/> 4200 | Biology of Fishes | 4 |
| EEB | <input type="checkbox"/> 4215 | Physiological Ecology of Animals | 3 |
| EEB | <input type="checkbox"/> 4250 | General Entomology | 4 |
| EEB | <input type="checkbox"/> 4260 | Ornithology | 4 |
| | <input type="checkbox"/> <u>or</u> 4261 | <u>or</u> Ornithology Lab | |
| NRE | <input type="checkbox"/> 3693 | Foreign Studies in Natural Resources (<i>approved by advisor</i>) | _____ |
| NRE | <input type="checkbox"/> 4340 | Ecotoxicology | 3 |
| PSYC/ EEB | <input type="checkbox"/> 3201 | Animal Behavior | 3 |
| PATH | <input type="checkbox"/> 2100 | Anatomy and Physiology of Animals | 4 |
| PATH | <input type="checkbox"/> 4300 | Principles of Pathobiology | 3 |

Habitat/Ecosystem-level – ONE of the following:

| Dept. | No. | Course Title | Credits |
|-------|-------------------------------|--|---------|
| NRE | <input type="checkbox"/> 2455 | Forest Ecology | 3 |
| NRE | <input type="checkbox"/> 3105 | Wetland Biology and Conservation | 3 |
| NRE | <input type="checkbox"/> 4205 | Stream Ecology | 3 |
| NRE | <input type="checkbox"/> 3693 | Foreign Studies in Natural Resources (<i>approved by advisor</i>) | 1-6 |

FOREST RESOURCES CONCENTRATION

ALL of the following:

| Dept. | No. | Course Title | Credits |
|-------|-------------------------------|-------------------------------|---------|
| NRE | <input type="checkbox"/> 2415 | Dendrology | 3 |
| NRE | <input type="checkbox"/> 2455 | Forest Ecology | 3 |
| NRE | <input type="checkbox"/> 3425 | Fundamentals of Arboriculture | 3 |
| NRE | <input type="checkbox"/> 3500 | Exurban Silviculture | 4 |
| NRE | <input type="checkbox"/> 4425 | Urban and Community Forestry | 3 |
| NRE | <input type="checkbox"/> 4475 | Forest Management | 4 |

ONE of the following:

| Dept. | No. | Course Title | Credits |
|-------|-------------------------------|---|---------|
| NRE | <input type="checkbox"/> 2345 | Introduction to Fisheries and Wildlife | 3 |
| NRE | <input type="checkbox"/> 2550 | Nature-based Outdoor Recreation Resource Management | 3 |
| NRE | <input type="checkbox"/> 3265 | Sustainable Urban Ecosystems | 3 |
| NRE | <input type="checkbox"/> 3335 | Wildlife Management | 3 |
| NRE | <input type="checkbox"/> 3535 | Remote Sensing of the Environment | 3 |
| NRE | <input type="checkbox"/> 3690 | Field Study Internship | _____ |
| NRE | <input type="checkbox"/> 3693 | Foreign Studies in Natural Resources | _____ |
| NRE | <input type="checkbox"/> 4335 | Fisheries Management | 3 |

ONE of the following:

| Dept. | No. | Course Title | Credits |
|-------|-------------------------------|--------------------------------------|---------|
| NRE | <input type="checkbox"/> 3105 | Wetlands Biology and Conservation | 3 |
| NRE | <input type="checkbox"/> 3125 | Watershed Hydrology | 3 |
| NRE | <input type="checkbox"/> 3693 | Foreign Studies in Natural Resources | _____ |
| NRE | <input type="checkbox"/> 4180 | Climate Change Adaptation Science | 3 |
| NRE | <input type="checkbox"/> 4205 | Stream Ecology | 3 |

WATER RESOURCES AND CLIMATE CONCENTRATION

ALL of the following:

| Dept. | No. | Course Title | Credits |
|-------|---|---------------------------------|---------|
| NRE | <input type="checkbox"/> 2215E | Introduction to Water Resources | 3 |
| NRE | <input type="checkbox"/> 3125 | Watershed Hydrology | 3 |
| NRE | <input type="checkbox"/> 2146 | Climatology | 3 |
| | <input type="checkbox"/> <u>or</u> 3145 | <u>or</u> Meteorology | |

Five additional courses from among the following groups, including at least one from Hydrologic Science group and at least one from the Biological/Ecological Science group (whichever of NRE 2146 or 3145 is used to fulfill the above requirement cannot be used to also fulfill this requirement):

Hydrologic Science:

| Dept. | No. | Course Title | Credits |
|-------|---------|--|---------|
| ENVE | □ 3120 | Fluid Mechanics | 4 |
| ERTH | □ 2020 | Earth Surface Processes | 3 |
| MARN | □ 3000E | The Oceans and Global Climate | 3 |
| NRE | □ 4135 | Introduction to Ground Water Hydrology | 4 |
| NRE | □ 4255 | Water Quality Management | 3 |
| NRE | □ 5115 | Field Methods in Hydrogeology | 3 |

Biological/Ecological Science:

| Dept. | No. | Course Title | Credits |
|-------|--------|-----------------------------------|---------|
| NRE | □ 3105 | Wetlands Biology and Conservation | 3 |
| NRE | □ 4205 | Stream Ecology | 3 |
| NRE | □ 4340 | Ecotoxicology | 3 |

Atmospheric Science:

| Dept. | No. | Course Title | Credits |
|-------|--------|--------------------------------------|---------|
| GEOG | □ 3400 | Climate and Weather | 3 |
| NRE | □ 2146 | Climatology | 3 |
| NRE | □ 3115 | Air Pollution | 3 |
| NRE | □ 3145 | Meteorology | 3 |
| NRE | □ 4170 | Climate-Human-Ecosystem Interactions | 3 |
| NRE | □ 4180 | Climate Change Adaptation Science | 3 |

Policy:

| Dept. | No. | Course Title | Credits |
|-------|---------|-----------------------------------|---------|
| ARE | □ 2434E | Environmental and Resource Policy | 3 |
| NRE | □ 3245E | Environmental Law | 3 |

Related Skills:

| Dept. | No. | Course Title | Credits |
|-------|--------|--|---------|
| AH | □ 3275 | HAZWOPER | 3 |
| NRE | □ 3535 | Remote Sensing of the Environment | 3 |
| NRE | □ 4544 | Land Surveying for Environmental Management and Planning | 3 |

PART III: 36 CREDIT REQUIREMENT FOR ALL MAJORS¹

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 Connecticut²
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 |
|-------|-------|---------|
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
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| _____ | _____ | _____ |

| Dept. | No. | Credits |
|-------|-------|---------|
| _____ | _____ | _____ |
| _____ | _____ | _____ |
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| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |

Credits from departments in CAHNR (15 required): _____

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

Total Credits in 36 credit group: _____

¹Courses 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.