

# UConn | COLLEGE OF AGRICULTURE, HEALTH AND NATURAL RESOURCES

## PLAN OF STUDY FORM

Catalog Year 2019-2020

NATURAL RESOURCES

### DIRECTIONS

- 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. A *preliminary plan* is developed and submitted to the advisor by the end of the sophomore year (or equivalent time for transfer students).
- A final plan must be approved by advisor and the department head, and submitted to the Degree Auditor in the Registrars Office (1<sup>st</sup> floor, Wilbur Cross Building) no later than the end of the tenth week of classes of the semester prior to the anticipated semester of graduation.**
- Students must complete all major and general education course requirements and earn:
  - At least 120 credits toward 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**
- University of Connecticut General Education Requirements (GER), are outlined in the Academic Regulations section of the *Undergraduate Catalog*. Only approved courses may be used to meet requirements.
- Students should use their Academic Requirements Report (accessible in Student Admin) along with the 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 requirements.

### STUDENT AND DEGREE INFORMATION

Must be filled out complete on your final plan of study.

Select One:

☐ Preliminary Plan

☐ Final Plan

Name \_\_\_\_\_ Student I.D.: \_\_\_\_\_  
First Middle Last

Phone #: \_\_\_\_\_ Email Address: \_\_\_\_\_

Current Address: \_\_\_\_\_  
Street City/Town State Zip Code

Month and Year of Anticipated Graduation: ☐ May ☐ August ☐ December Year: \_\_\_\_\_

Are you pursuing a double major in CAHNR: ☐ Yes ☐ No If YES, submit Double Major Attachment with final plans of study

Please list below any minors that you plan to earn and submit a final minor plan of study with your final major plan of study.

At the completion of semester you intend to graduate, will you have earned 120 or more credits? ☐ Yes ☐ No

### APPROVAL SIGNATURES

\_\_\_\_\_  
Student Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Advisor Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Department Head's Signature

\_\_\_\_\_  
Date

**The final plan of study must be submitted to the Registrar's Office in the Wilbur Cross Building.  
Please remember to keep a copy of the plan for your records.**

**PART I: GENERAL EDUCATION REQUIREMENTS (GER) <sup>1</sup>**

Courses approved to meet GER are outlined in the Academic Regulations section of the *Undergraduate Catalog*.

*Courses in Content Areas 1-3 must be in 6 different departments.*

*One course from Content Area 4 may be used to fulfill a requirement in Content Areas 1-3.*

Content Area	Dept.	Course No.	Credits	Semester/Year	Grade
<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 1010 or 1011	_____	_____	_____	_____ / _____	_____
"W" Course	_____	_____	_____	_____ / _____	_____
"W" Course ( <i>within major</i> )	_____	_____	_____	_____ / _____	_____
"Q" Course	_____	_____	_____	_____ / _____	_____
"Q" Course ( <i>MATH or STAT</i> )	_____	_____	_____	_____ / _____	_____
Environmental Literacy (total 3 credits)	_____	_____	_____	_____ / _____	_____
1 Arts & Humanities ( <i>total 6 credits</i> )	_____	_____	_____	_____ / _____	_____
	_____	_____	_____	_____ / _____	_____
2 Social Sciences ( <i>total 6 credits</i> )	_____	_____	_____	_____ / _____	_____
	_____	_____	_____	_____ / _____	_____
3 Science & Technology ( <i>total 6 credits – include one 4-credit laboratory course</i> )	_____	_____	_____	_____ / _____	_____
	_____	_____	_____	_____ / _____	_____
4 Diversity & Multiculturalism ( <i>total 6 credits – one must be "International" course</i> )	_____	_____	_____	_____ / _____	_____
	_____	_____	_____	_____ / _____	_____

**Computer Technology Competency:** See major requirements

**Information Literacy Competency:** See major requirements

## NATURAL RESOURCES

### PART II: INDIVIDUAL COURSE REQUIREMENTS OF NATURAL RESOURCES MAJOR<sup>1</sup>

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	Semester/Year	Grade
NRE	1000	Environmental Science	3	_____ / _____	_____
NRE	2000	Introduction to Geomatics	4	_____ / _____	_____
NRE	2010	Natural Resources Measurements	3	_____ / _____	_____
NRE	3000	Human Dimensions of Natural Resources	3	_____ / _____	_____
NRE	4000W	Natural Resources Planning & Management	3	_____ / _____	_____
NRE	4094	Seminar	1	_____ / _____	_____
BIOL	<input type="checkbox"/> 1107	Principles of Biology I	4	_____ / _____	_____
	<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"/> 1122Q	Chemical Principles and Applications	4	_____ / _____	_____
	<input type="checkbox"/> <u>or</u> 1124Q	<u>or</u> Fundamentals of General Chemistry			
	<input type="checkbox"/> <u>or</u> 1127Q	<u>or</u> General Chemistry			
MATH	<input type="checkbox"/> 1060Q	Precalculus	_____	_____ / _____	_____
	<input type="checkbox"/> <u>or</u> 1131Q	<u>or</u> Calculus I			
	<input type="checkbox"/> SPSS 2120 <u>and</u> 2125	Environmental Soil Science & Soils Lab	_____	_____ / _____	_____
	<input type="checkbox"/> <u>or</u> GSCI 1050	<u>or</u> Earth's Dynamic Environment			
PHYS	<input type="checkbox"/> 1201Q	General Physics	4	_____ / _____	_____
	<input type="checkbox"/> <u>or</u> 1401Q	<u>or</u> General Physics with Calculus			
STAT	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, Sustainable Forest Resources, or Water Resources and Climate.

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

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### ENVIRONMENTAL SUSTAINABILITY AND CONSERVATION CONCENTRATION

**ALL of the following:**

Dept.	No.	Course Title	Credits	Semester/Year	Grade
	<input type="checkbox"/> ARE 1150	Principles of Agriculture & Resource Management	3	_____ / _____	_____
	<input type="checkbox"/> or ECON 1201	Principles of Microeconomics			
NRE	1235	Environmental Conservation	3	_____ / _____	_____
NRE	2600	Global Sustainable Natural Resources	3	_____ / _____	_____
	<input type="checkbox"/> NRE 3245	Environmental Law	3	_____ / _____	_____
	<input type="checkbox"/> or ARE 3434	Environmental and Resource Policy			

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	Semester/Year	Grade
ANTH	<input type="checkbox"/> 3339	Cultural Designs for Sustainability	3	_____ / _____	_____
ENVE	<input type="checkbox"/> 1000	Environmental Sustainability	3		
NRE	<input type="checkbox"/> 3265	Sustainable Urban Ecosystems	3		
NRE	<input type="checkbox"/> 3675	Environmental and Natural Resources of China	3		
SOCI	<input type="checkbox"/> 2701	Sustainable Societies	3		
SOCI	<input type="checkbox"/> 3407/W	Energy, Environment, and Society	3		
SPSS	<input type="checkbox"/> 2100	Environ. Sustain. of Food Prod. in Developed Countries	3		

**Economics and Social Science: ONE of the following**

Dept.	No.	Course Title	Credits	Semester/Year	Grade
ANTH	<input type="checkbox"/> 3339	Cultural Designs for Sustainability	3	_____ / _____	_____
ARE	<input type="checkbox"/> 2235	Marine Economics and Policy	3		
ARE	<input type="checkbox"/> 4438	Valuing the Environment	3		
ARE	<input type="checkbox"/> 4444	Economics of Energy, Climate, and the Environment	3		
ECON	<input type="checkbox"/> 2467	Economics of the Oceans	3		
ECON	<input type="checkbox"/> 3466	Environmental Economics	3		
GEOG	<input type="checkbox"/> 3320W	Environmental Evaluation and Assessment	3		
GEOG	<input type="checkbox"/> 3340	Environmental Planning and Management	3		
GEOG	<input type="checkbox"/> 3410	Human Modifications of Natural Environments	3		
PHIL	<input type="checkbox"/> 3216	Environmental Ethics	3		
POLS	<input type="checkbox"/> 3239	Politics of the Environment and Development	3		
POLS	<input type="checkbox"/> 3412	Global Environmental Politics	3		
POLS	<input type="checkbox"/> 3847	The Policy-Making Process	3		
SOCI	<input type="checkbox"/> 2701	Sustainable Societies	3		

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Dept.	No.	Course Title	Credits	Semester/Year	Grade
SOCI	<input type="checkbox"/> 3407/W	Energy, Environment, and Society	3		

### **Natural Resources/Ecologic Science: ONE of the following**

Dept.	No.	Course Title	Credits	Semester/Year	Grade
EEB	<input type="checkbox"/> 2244/W	General Ecology	4	_____ / _____	_____
EEB	<input type="checkbox"/> 3247	Freshwater Ecology	4		
EEB/ MARN	<input type="checkbox"/> 3230 <input type="checkbox"/> 3014	Marine Biology	3		
MARN	<input type="checkbox"/> 3000	The Hydrosphere and Global Climate	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"/> 3146	Climatology	3		
NRE	<input type="checkbox"/> 3205	Stream Ecology	3		
NRE	<input type="checkbox"/> 4370	Population Dynamics	3		
SPSS	<input type="checkbox"/> 2500	Principles and Concepts of Agroecology	3		

### **Resource Conservation and Management: ONE of the following**

Dept.	No.	Course Title	Credits	Semester/Year	Grade
NRE	<input type="checkbox"/> 3155	Water Quality Management	3	_____ / _____	_____
NRE	<input type="checkbox"/> 3305	African Field Ecology & Renewable Resources Mgmt	4		
NRE	<input type="checkbox"/> 3335	Wildlife Management	3		
NRE	<input type="checkbox"/> 4165	Soil and Water Management and Engineering	3		
NRE	<input type="checkbox"/> 4170	Climate-Human-Ecosystem Interactions	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 or equivalent completed abroad: (pre-approved by NRE)**

Dept.	No.	Course Title	Credits	Semester/Year	Grade
			_____	_____ / _____	_____
			_____	_____ / _____	_____
			_____	_____ / _____	_____
			_____	_____ / _____	_____
			_____	_____ / _____	_____
			_____	_____ / _____	_____

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## FISHERIES AND WILDLIFE CONSERVATION CONCENTRATION

**ALL of the following:**

Dept.	No.	Course Title	Credits	Semester/Year	Grade
EEB	2214	Biology of Vertebrates	3	_____ / _____	_____
EEB	2244/W	General Ecology	4	_____ / _____	_____
NRE	2345	Introduction to Fisheries and Wildlife	3	_____ / _____	_____
NRE	<input type="checkbox"/> 3335 <input type="checkbox"/> or 4335	Wildlife Management or Fisheries Management	_____	_____ / _____	_____
NRE	<input type="checkbox"/> 3345/W <input type="checkbox"/> or 4575	Wildlife Management Techniques or Natural Resources Applications of GIS	4	_____ / _____	_____
NRE	4370	Population Dynamics	3	_____ / _____	_____

**Taxonomy/Organismal-level: ONE of the following:**

Dept.	No.	Course Title	Credits	Semester/Year	Grade
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 or 4261	Ornithology/Ornithology Lab	4		
NRE	<input type="checkbox"/> 3693	Foreign Studies in Natural Resources	_____		
NRE	<input type="checkbox"/> 4340	Environmental Toxicology	3		
PSYC/ EEB	<input type="checkbox"/> 3201	Animal Behavior	3		
PVS	<input type="checkbox"/> 2100	Anatomy and Physiology of Animals	4		
PVS	<input type="checkbox"/> 4300	Principles of Pathobiology	3		

**Habitat/Ecosystem-level: ONE of the following**

Dept.	No.	Course Title	Credits	Semester/Year	Grade
EEB	<input type="checkbox"/> 3247	Freshwater Ecology	4	_____ / _____	_____
NRE	<input type="checkbox"/> 2455	Forest Ecology	3		
NRE	<input type="checkbox"/> 3105	Wetland Biology and Conservation	3		
NRE	<input type="checkbox"/> 3205	Stream Ecology	3		
NRE	<input type="checkbox"/> 3693	Foreign Studies in Natural Resources	_____		

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### SUSTAINABLE FOREST RESOURCES CONCENTRATION

**ALL of the following:**

Dept.	No.	Course Title	Credits	Semester/Year	Grade
NRE	2345	Introduction to Fisheries and Wildlife	3	_____ / _____	_____
NRE	2415	Dendrology	3	_____ / _____	_____
NRE	2455	Forest Ecology	3	_____ / _____	_____
NRE	3125	Watershed Hydrology	3	_____ / _____	_____
NRE	3500	Exurban Silviculture	4	_____ / _____	_____
NRE	3690	Field Study Internship	_____	_____ / _____	_____
NRE	4475	Forest Management	4	_____ / _____	_____
NRE	4544	Applications of Surveying for Natural Resources	3	_____ / _____	_____

**ONE of the following:**

Dept.	No.	Course Title	Credits	Semester/Year	Grade
NRE	<input type="checkbox"/> 3535	Remote Sensing of the Environment	3	_____ / _____	_____
NRE	<input type="checkbox"/> 3693	Foreign Studies in Natural Resources	_____		
NRE	<input type="checkbox"/> 4545	Geodesy	3		
NRE	<input type="checkbox"/> 4575	Natural Resources Applications of GIS	4		

### WATER RESOURCES AND CLIMATE CONCENTRATION

**ALL of the following:**

Dept.	No.	Course Title	Credits	Semester/Year	Grade
NRE	2215	Introduction to Water Resources	3	_____ / _____	_____
NRE	3125	Watershed Hydrology	3	_____ / _____	_____
NRE	<input type="checkbox"/> 3145	Meteorology	3	_____ / _____	_____
	<input type="checkbox"/> or 3146	Climatology			

**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 3145 or 3146 is used to fulfill the above requirement cannot be used to also fulfill this requirement):

**Hydrologic Science:**

Dept.	No.	Course Title	Credits	Semester/Year	Grade
NRE	<input type="checkbox"/> 3120	Fluid Mechanics	4	_____ / _____	_____
GEOG	<input type="checkbox"/> 3310	Fluvial Geomorphology	3		
GSCI	<input type="checkbox"/> 3020	Earth Surface Processes	3		
MARN	<input type="checkbox"/> 3000	The Hydrosphere and Global Climate	3		
NRE	<input type="checkbox"/> 3155	Water Quality Management	3		
NRE	<input type="checkbox"/> 4135	Introduction to Ground-Water Hydrology	4		

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Dept.	No.	Course Title	Credits	Semester/Year	Grade
NRE	<input type="checkbox"/> 4165	Soil and Water Management and Engineering	3		
NRE	<input type="checkbox"/> 5115	Field Methods in Hydrogeology	3		

### **Biological/Ecological Science:**

Dept.	No.	Course Title	Credits	Semester/Year	Grade
EEB	<input type="checkbox"/> 3204	Aquatic Plant Biology	4	_____ / _____	_____
EEB	<input type="checkbox"/> 3247	Freshwater Ecology	4		
NRE	<input type="checkbox"/> 3105	Wetlands Biology and Conservation	3	_____ / _____	_____
NRE	<input type="checkbox"/> 3205	Stream Ecology	3		
NRE	<input type="checkbox"/> 4340	Environmental Toxicology	3		

### **Atmospheric Science:**

Dept.	No.	Course Title	Credits	Semester/Year	Grade
GEOG	<input type="checkbox"/> 3400	Climate and Weather	3	_____ / _____	_____
NRE	<input type="checkbox"/> 3115	Air Pollution	3		
NRE	<input type="checkbox"/> 3145	Meteorology	3	_____ / _____	_____
NRE	<input type="checkbox"/> 3146	Climatology	3		
NRE	<input type="checkbox"/> 4170	Climate-Human-Ecosystem Interactions	3		

### **Policy:**

Dept.	No.	Course Title	Cre3dits	Semester/Year	Grade
ARE	<input type="checkbox"/> 3434	Environmental and Resource Policy	3	_____ / _____	_____
NRE	<input type="checkbox"/> 3245	Environmental Law	3	_____ / _____	_____

### **Related Skills:**

Dept.	No.	Course Title	Credits	Semester/Year	Grade
AH	<input type="checkbox"/> 3275	HAZWOPER	3	_____ / _____	_____
NRE	<input type="checkbox"/> 3535	Remote Sensing of the Environment	3		
NRE	<input type="checkbox"/> 4544	Applications of Surveying for Natural Resources	3	_____ / _____	_____
NRE	<input type="checkbox"/> 4545	Geodesy	3		
NRE	<input type="checkbox"/> 4575	Natural Resources Applications of GIS	4		



# UConn | COLLEGE OF AGRICULTURE, HEALTH AND NATURAL RESOURCES

## ONLINE PLAN OF STUDY FORM ATTACHMENT

### PART III: 36 CREDIT REQUIREMENT FOR ALL MAJORS<sup>1</sup>

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<sup>2</sup>
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	Semester/Year	Grade
_____	_____	_____	_____/_____	_____
_____	_____	_____	_____/_____	_____
_____	_____	_____	_____/_____	_____
_____	_____	_____	_____/_____	_____
_____	_____	_____	_____/_____	_____
_____	_____	_____	_____/_____	_____
_____	_____	_____	_____/_____	_____
_____	_____	_____	_____/_____	_____
_____	_____	_____	_____/_____	_____
_____	_____	_____	_____/_____	_____
_____	_____	_____	_____/_____	_____

Dept.	No.	Credits	Semester/Year	Grade
_____	_____	_____	_____/_____	_____
_____	_____	_____	_____/_____	_____
_____	_____	_____	_____/_____	_____
_____	_____	_____	_____/_____	_____
_____	_____	_____	_____/_____	_____
_____	_____	_____	_____/_____	_____
_____	_____	_____	_____/_____	_____
_____	_____	_____	_____/_____	_____
_____	_____	_____	_____/_____	_____
_____	_____	_____	_____/_____	_____
_____	_____	_____	_____/_____	_____

Credits from departments in CAHNR (15 required): \_\_\_\_\_

(CAHNR subject codes include AGNR, AH, ANSC, ARE, DGS, DIET, ENVS, EVST, HORT, KINS, LAND, MLSC, NRE, NUSC, PLSC, PVS, SOIL, SPSS, TURF)

Total Credits in 36 credit group: \_\_\_\_\_

<sup>1</sup>Courses taken on Pass/Fail may NOT be used to meet any requirements.

<sup>2</sup>**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.