

# UConn | COLLEGE OF AGRICULTURE, HEALTH AND NATURAL RESOURCES

## PLAN OF STUDY FORM Catalog Year 2016-2017 Natural Resources

### DIRECTIONS

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- 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 department head, and submitted to the Degree Auditor (Unit 4077, 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

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**Must be filled out completely 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.

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

### APPROVAL SIGNATURES

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Student's Signature \_\_\_\_\_ Date \_\_\_\_\_

Advisor's Signature \_\_\_\_\_ Date \_\_\_\_\_

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

**The final plan 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
Foreign Languages (3 years single language in high school) OR pass second course in first-year college sequence					
	_____	_____	_____	____ / ____	____
	_____	_____	_____	____ / ____	____
	ENGL 1010 or 1011	_____	_____	____ / ____	____
	"W" Course	_____	_____	____ / ____	____
	"W" Course ( <i>within major</i> )	_____	_____	____ / ____	____
	"Q" Course	_____	_____	____ / ____	____
	"Q" Course ( <i>MATH or STAT</i> )	_____	_____	____ / ____	____
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	1107 or 1108 or 1110	Principles of Biology I Principles of Biology II or Introduction to Botany	4	_____ / _____	___
CHEM	1122 or 1124Q or 1127Q	Chemical Principles and Applications or Fundamentals of General Chemistry or General Chemistry	4	_____ / _____	___
MATH	1060Q or 1131Q	Precalculus or Calculus 1	_____	_____ / _____	___
	SOIL 2120 and 2125 or GSCI 1050	Environmental Soil Science and Soils Lab or Earth and Life through Time with Lab	_____	_____ / _____ _____ / _____	___ ___
PHYS	1201Q or 1401Q	General Physics or General Physics with Calculus	4	_____ / _____	___
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.

## Environmental Sustainability and Conservation Concentration

### ALL of the following:

Dept.	No.	Course Title	Credits	Semester/Year	Grade
	ARE 1150 or ECON 1201	Principles of Agriculture and Resource Economics or Principles of Microeconomics	3	_____ / _____	____
	NRE 1235	Environmental Conservation	3	_____ / _____	____
	NRE 2600	Global Sustainable Natural Resources	3	_____ / _____	____
	NRE 3245 or ARE 3434	Environmental Law 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	Semester/Year	Grade
ANTH	3339	Cultural Designs for Sustainability	3	_____ / _____	____
ENVE	1000	Environmental Sustainability	3		
NRE	3265	Sustainable Urban Ecosystems	3		
PLSC	2100	Envir Sustain of Food Prod in Developed Countries	3		
SOCI	2701	Sustainable Societies	3		
SOCI	3407/W	Energy, Environment, and Society	3		

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

Dept.	No.	Course Title	Credits	Semester/Year	Grade
ANTH	3339	Cultural Designs for Sustainability	3	_____ / _____	____
ARE	3235	Marine Resource and Environmental Economics	3		
ARE	4438	Valuing the Environment	3		
ARE	4444	Economics of Energy, Climate, and the Environment	3		
ECON	2467	Economics of the Oceans	3		
ECON	3466	Environmental Economics	3		
GEOG	3320W	Environmental Evaluation and Assessment	3		
GEOG	3340	Environmental Planning and Management	3		
GEOG	3410	Human Modifications of Natural Environments	e		
PHIL	3216	Environmental Ethics	3		
POLS	3239	Politics of the Environment and Development	3		
POLS	3412	Global Environmental Politics	3		
POLS	3847	The Policy-making Process	3		
SOCI	2701	Sustainable Societies	3		
SOCI	3407/W	Energy, Environment, and Society	3		

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

Dept.	No.	Course Title	Credits	Semester/Year	Grade
EEB	2244/W	General Ecology	4	_____ / _____	____
EEB	3247	Freshwater Ecology	4		
EEB /MARN	3230 3014	Marine Biology	3		

MARN	3000	The Hydrosphere and Global Climate	3	_____ / _____	_____
NRE	2455	Forest Ecology	3		
NRE	3105	Wetlands Biology and Conservation	3		
NRE	3125	Watershed Hydrology	3		
NRE	3145	Meteorology	3		
NRE	3146	Climatology	3		
NRE	3205	Stream Ecology	3		
NRE	4370	Population Dynamics	3		
PLSC	2500	Principles and Concepts of Agroecology	3		

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

Dept.	No.	Course Title	Credits	Semester/Year	Grade
NRE	3155	Water Quality Management	3	_____ / _____	_____
NRE	3305	African Field Ecology & Renewable Resources Mgmt	4		
NRE	3335	Wildlife Management	3		
NRE	4165	Soil and Water Management and Engineering	3		
NRE	4170	Climate-Human-Ecosystem Interactions	3		
NRE	4335	Fisheries Management	4		
NRE	4475	Forest Management	4		
NRE	4665	Natural Resources Modeling	3		

**OR:**

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

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

**Fisheries and Wildlife Concentration**

**ALL of the following:**

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

**ONE of the following:**

Dept.	No.	Course Title	Credits	Semester/Year	Grade
ANSC	1111	Principles of Animal Nutrition and Feeding	3	_____ / _____	_____
ANSC	3121	Principles of Animal Genetics	3		
EEB	3254	Mammalogy	4		
EEB	3265	Herpetology	4		
EEB	4200	Biology of Fishes	4		
EEB	4215	Physiological Ecology of Animals	3		
EEB	4250	General Entomology	4		
EEB	4260 or 4261	Ornithology/Ornithology Lab	4		
NRE	4340	Environmental Toxicology	3		
PSYC /EEB	3201	Animal Behavior	3		
PVS	2100	Anatomy and Physiology of Animals	4		
PVS	4300	Principles of Pathobiology	3		

**ONE of the following:**

Dept.	No.	Course Title	Credits	Semester/Year	Grade
EEB	3247	Freshwater Ecology	4	_____ / _____	_____
NRE	2455	Forest Ecology	3		
NRE	3105	Wetlands Biology and Conservation	3		
NRE	3205	Stream Ecology	3		

**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	_____ / _____	_____

**ONE of the following:**

Dept.	No.	Course Title	Credits	Semester/Year	Grade
NRE	3535	Remote Sensing of the Environment	3	_____ / _____	_____
NRE	4544	Applications of Surveying for Natural Resources	3		
NRE	4545	Geodesy	3		
NRE	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	3145 or 3146	Meteorology Climatology	3	_____ / _____	___

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
ENVE	3120	Fluid Mechanics	4	_____ / _____	___
GEOG	3310	Fluvial Geomorphology	3		
GSCI	3020	Earth Surface Processes	3		
MARN	3000	The Hydrosphere and Global Climate	3		
NRE	3155	Water Quality Management	3		
NRE	4135	Introduction to Ground-Water Hydrology	4		
NRE	4165	Soil and Water Management and Engineering	3		
NRE	5115	Field Methods in Hydrogeology	3		

**Biological/Ecological Science:**

Dept.	No.	Course Title	Credits	Semester/Year	Grade
EEB	3204	Aquatic Plant Biology	4	_____ / _____	___
EEB	3247	Freshwater Ecology	4		
NRE	3105	Wetlands Biology and Conservation	3		
NRE	3205	Stream Ecology	3		
NRE	4340	Environmental Toxicology	3		

**Atmospheric Science:**

Dept.	No.	Course Title	Credits	Semester/Year	Grade
GEOG	3400	Climate and Weather	3	_____ / _____	___
NRE	3115	Air Pollution	3		
NRE	3145	Meteorology	3		
NRE	3146	Climatology	3		
NRE	4170	Climate-Human-Ecosystem Interactions	3		

**Policy:**

Dept.	No.	Course Title	Credits	Semester/Year	Grade
ARE	3434	Environmental and Resource Policy	3	_____ / _____	___
NRE	3245	Environmental Law	3		

**Related Skills:**

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

## 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, HORT, KINS, LAND, MLSC, NRE, NUSC, PLSC, PVS, SOIL, 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.