

# UConn | COLLEGE OF AGRICULTURE, HEALTH AND NATURAL RESOURCES

## PLAN OF STUDY FORM Catalog Year 2015-2016 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	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: Climate and Water Resources, Environmental Conservation, Fisheries and Wildlife Conservation, International Studies of Sustainable Natural Resources, Sustainable Forest Resources, or Geomatics.

## Climate and Water Resources 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	3146	Climatology	3	_____ / _____	____
NRE	4135	Introduction to Ground-Water Hydrology	4	_____ / _____	____

### **THREE of the following:**

Dept.	No.	Course Title	Credits	Semester/Year	Grade
EEB	3247	Freshwater Ecology	4	_____ / _____	____
NRE	3105	Wetlands Biology and Conservation	3		
NRE	3115	Air Pollution	3		
NRE	3145	Meteorology	3		
NRE	3155	Water Quality Management	3		
NRE	3205	Stream Ecology	3		
NRE	4535	Remote Sensing Image Processing	3		

### **TWO additional courses from the following:**

Dept.	No.	Course Title	Credits	Semester/Year	Grade
EEB	3247	Freshwater Ecology	4	_____ / _____	____
GSCI	3020	Earth Surface Processes	3		
MARN	3000	The Hydrosphere and Global Climate	3		
NRE	3105	Wetlands Biology and Conservation	3		
NRE	3115	Air Pollution	3		
NRE	3145	Meteorology	3		
NRE	3155	Water Quality Management	3		
NRE	3205	Stream Ecology	3		
NRE	3245	Environmental Law	3		
NRE	3246/3000	Human Dimensions of Natural Resources	3		
NRE	3535	Remote Sensing of the Environment	3		
NRE	4165	Soil and Water Management and Engineering	3		
NRE	4170	Climate-Human-Ecosystem Interactions	3		
NRE	4535	Remote Sensing Image Processing	3		
NRE	4575	Natural Resources Applications of Geographic Info Systems	4		
NRE	4665	Natural Resources Modeling	3		

## Environmental 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	_____ / _____	____
COMM	1100	Principles of Public Speaking	3	_____ / _____	____
EEB	2244/W	General Ecology	4	_____ / _____	____
NRE	1235	Environmental Conservation	3	_____ / _____	____
NRE	3245	Environmental Law	3	_____ / _____	____
NRE	3246/3000	Human Dimensions of Natural Resources	3	_____ / _____	____
NRE	3690	Field Study Internship	_____	_____ / _____	____

### **THREE of the following:**

Dept.	No.	Course Title	Credits	Semester/Year	Grade
ARE	3434 or 3434 and 3440W	Environmental and Resource Policy or Writing in Environmental and Resource Policy	_____	_____ / _____	____
ARE	4438	Valuing the Environment	3		
ARE	4462	Environmental and Resource Economics	3		
COMM	4410W	Government Communications	3		
NRE	4600	Current Topics in Environ. & Natural Resources	2		
POLS	3842	Public Administration	3		
SOCI	3407	Energy, Environment, and Society	3		

## 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	3245	Environmental Law	3	_____ / _____	___
NRE	3246/3000	Human Dimensions of Natural Resources	3	_____ / _____	___
NRE	3335 or 4335	Wildlife Management or Fisheries Management	_____	_____ / _____	___
				_____ / _____	___
NRE	4370	Population Dynamics	3	_____ / _____	___

### ONE of the following:

Dept.	No.	Course Title	Credits	Semester/Year	Grade
EEB	3254	Mammalogy	4	_____ / _____	___
EEB	3265	Herpetology	4		
EEB	4200	Biology of Fishes	4		
EEB	4260 and 4261	Ornithology/Ornithology Lab	4		

### ONE of the following in addition to those selected above:

Dept.	No.	Course Title	Credits	Semester/Year	Grade
EEB	2208	Introduction to Conservation Biology	3	_____ / _____	___
EEB	3247	Freshwater Ecology	4		
NRE	2325	Fish and Fisheries Conservation	3		
NRE	2455	Forest Ecology	3		
NRE	3105	Wetlands Biology and Conservation	3		
NRE	3205	Stream Ecology	3		
NRE	3345/W	Wildlife Management Techniques	4		
NRE	4340	Environmental Toxicology	3		

**International Studies of Sustainable Natural Resources**

**TWO of the following:**

Dept.	No.	Course Title	Credits	Semester/Year	Grade
NRE	2215	Introduction to Water Resources	3	_____ / _____	____
NRE	2345	Introduction to Fisheries and Wildlife	3	_____ / _____	____
NRE	2455	Forest Ecology	3		

**TWO of the following:**

Dept.	No.	Course Title	Credits	Semester/Year	Grade
NRE	3246/3000	Human Dimensions of Natural Resources	3	_____ / _____	____
NRE	4170	Climate-Human-Ecosystem Interactions	3		
SOCI	3407	Energy, Environment, and Society	3	_____ / _____	____
GEOG	3410	Human Modifications of Natural Environments	3		

**Pass ONE 3 credit NRE course in global sustainable resources approved by the department:**

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

**12-15 credits of an approved Education Abroad experience: (appropriate language courses would count)**

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

**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	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	4544	Applications of Surveying for Natural Resources	3		
NRE	4545	Geodesy	3	_____ / _____	____
NRE	4575	Natural Resources Applications of Geographic Info Systems	4		

**ONE of the following:**

Dept.	No.	Course Title	Credits	Semester/Year	Grade
NRE	3246/3000	Human Dimensions of Natural Resources	3		
ARE	3434	Environmental and Resource Policy	3	_____ / _____	____
ARE	3434 <u>and</u> 3440W	Writing in Environmental and Resource Policy	4		

## Geomatics Concentration

### ALL of the following:

Dept.	No.	Course Title	Credits	Semester/Year	Grade
NRE	4535	Remote Sensing Image Processing	3	_____ / _____	____
NRE	4544	Applications of Surveying for Natural Resources	3	_____ / _____	____
NRE	4545	Geodesy	3	_____ / _____	____
NRE	4575	Natural Resources Applications of Geographic Info Systems	4	_____ / _____	____

### TWO of the following:

Dept.	No.	Course Title	Credits	Semester/Year	Grade
NRE	3535	Remote Sensing of the Environment	3	_____ / _____	____
CE	2410	Geomatics and Spatial Measurements	4		
GEOG	2300	Introduction to Physical Geography	3		
GEOG	2500	Introduction to Geographic Information Systems	4		
GEOG	2505	Applications of Geographic Information Systems	4		
MATH	1125Q or higher	_____	_____		

### THREE of the following:

Dept.	No.	Course Title	Credits	Semester/Year	Grade
CSE	1010 or 1100	Introduction to Computing for Engineers or Introduction to Computing	_____	_____ / _____	____
NRE	2415	Dendrology	3		
NRE	2455	Forest Ecology	3		
NRE	3105	Wetlands Biology and Conservation	3		
NRE	3125	Watershed Hydrology	3		
NRE	3146	Climatology	3		
NRE	3155	Water Quality Management	3		
NRE	4475	Forest Management	4		
NRE	4665	Natural Resources Modeling	3		
NRE	4689	Undergrad Research in Natural Resources	_____		
NRE	5461	Landscape Ecology	_____		
NRE	5555	GPS Surveying	_____		



**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, MT, 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.