

Add Course Request

Submitted on: 2012-03-27 11:18:50

1. COURSE SUBJECT	NRE
2. COURSE NUMBER (OR PROPOSED NUMBER)	2600
3. COURSE TITLE	Global Sustainable Resources
4. INITIATING DEPARTMENT or UNIT	NRE
5. NAME OF SUBMITTER	Thijs Bosker
6. PHONE of SUBMITTER	Phone: 1677
7. EMAIL of SUBMITTER	Email: thijs.bosker@uconn.edu
8. CONTACT PERSON	Tom Meyer
9. UNIT NUMBER of CONTACT PERSON (U-BOX)	4087
10. PHONE of contact person	Phone: 0145
11. EMAIL of of contact person	Email: thomas.meyer@uconn.edu
12. Departmental Approval Date	03/02/2012
13. School/College Approval Date	03/23/2012
14. Names and Dates of additional Department and School/College approvals	
15. Proposed Implementation Date	Term: Fall, Year: 2013
16. Offered before next printed catalog is distributed?	Yes
17. General Education Content Area	Content Area 4 Diversity and Multiculturalism International
18. General Education Skill Code (W/Q). Any non-W section?	
19. Terms Offered	Semester: Fall Year: Every_Year
20. Sections	Sections Taught: 1
21. Student Number	Students/Sections: 50
22. Clarification: 50 students, of which 20 seats reserved for NRE students	
23. Number of Credits	3 if VAR Min: Max:

	credits each term
24. INSTRUCTIONAL PATTERN	
Lectures on Tuesday and Thursday	
25. Will this course be taught in a language other than English?	No If yes, then name the language:
26. Please list any prerequisites, recommended preparation or suggested preparation:	
27. Is Instructor, Dept. Head or Unit Consent Required?	No
28. Permissions and Exclusions:	
29. Is this course repeatable for credit?	No If yes, total credits allowed: Allow multiple enrollments in same term?
30. Grading Basis	Graded
31. If satisfactory/unsatisfactory grading is proposed, please provide rationale :	
32. Will the course or any sections of the course be taught as Honors? No	
33. Additional Details:	
34. Special Attributes:	
35. REGIONAL CAMPUS AVAILABILITY:	
36. PROVIDE THE PROPOSED TITLE AND COMPLETE CATALOG COPY:	
<p>NRE 2600 Global Sustainable Resources Three credits. The objectives of the course are to expose students to sustainable management of natural resources and to prepare students for a study-abroad semester where they will explore its many challenges and opportunities. Topics include marine and freshwater systems, forest systems, food production systems and urban development.</p>	
37. RATIONALE FOR ACTION REQUESTED	
<p>This course is required for the International Studies of Sustainable Natural Resources (ISSNR) concentration. Students enrolled in this concentration are required to study one semester abroad. This course has been developed to prepare them for this experience.</p> <p>This course is offered prior to the study abroad, and is therefore timed as a 2XXX course (student can go abroad in their junior or senior year. Due to the international nature of this course, we propose this class to be included as a content-area 4 course (CA4). In this course, students will have the opportunity to experience different cultural perspectives on sustainable management of natural resources, and to directly compare this to a North American perspective.</p>	
38. SYLLABUS:	
Online URL: (https://web2.uconn.edu/senateform/request/course_uploads/kcp13001-1368456247-NRE 2600 Global Sustainable Natural Resources BOSKER syllabus.doc)	

39. Course Information: ALL General Education courses, including W and Q courses, MUST answer this question

A. The goals of this course are: 1) to expose students to the challenges and opportunities related to the sustainable management of natural resources, and 2) to prepare students for a study-abroad semester. The learning objectives are 1) for students to be able to articulate the differences in management among different cultural regions, and 2) to describe the local challenges in the management of natural resources related to specific ecoregions.

B. 2 Midterms and Final Exam: Short-answer and essay questions.

Term Paper: The term paper will be focused on sustainability of natural resources in different regions around the globe.

C. Part I: Conceptual framework, including topics such as resilience in sustainable ecosystem management; human well-being during social-ecological change; adaptive co-management in social-ecological governance and; transformations in ecosystem stewardship

Part II Stewarding ecosystems for society, which include topics such as conservation, community, and livelihoods; forest systems; dry lands; freshwaters; oceans and estuaries; coastal marine systems; cities; the earth system.

Part III Integration and synthesis, including resilience-based stewardship: strategies for navigating sustainable pathways in a changing world.

40. Goals of General Education: All Courses Proposed for a Gen Ed Content Area MUST answer this question

This course meets the following goals:

1) Acquire awareness of their era and society and 2) Acquire consciousness of the diversity of human culture and experience.

The sustainable use of natural resources is one of the most challenging and complex questions to be dealt with in current and future generations. There are great differences in the challenges faced by peoples living in different ecoregions, and in addition, the approach to sustainable management of these valuable resources differs among countries or regions. In this course students will learn about how different societies utilize natural resources and the struggles they face (i.e. drought, pollution, urban development). Students will also acquire understanding and awareness on how to critically evaluate different approaches to sustainable management of natural resources.

41. Content Area and/or Competency Criteria: ALL General Education courses, including W and Q courses, MUST answer this question.: Specific Criteria

a. **Arts and Humanities:**

b. **Social Sciences:**

c. **Science and Technology:**

i. **Laboratory:**

d. **Diversity and Multiculturalism:**

d. Diversity and Multiculturalism: This course will meet the following competency criteria:

4. Develop an understanding of and sensitivity to issues involving human rights and migration;
5. Develop an awareness of the dynamics of social, political, and/or economic power in the context of the above items.

Having access to clean water, food, and other natural resources is vital for communities to thrive, and many of them are explicitly mentioned as a human right by the United Nations^{1,2}. Due to an ever-increasing human population, there can be great disparity in access to these natural resources between peoples who inhabit different ecoregions. Importantly, the lack of access to natural resources is an important driving force of global migration: “Climate change, land degradation and water shortage, but also floods, poverty, famine and population pressure are amongst the primary push factors of migration.”³ This course exposes students to the global challenges in sustainably managing natural resources. The approaches to dealing with these challenges will be placed in the context of the differences between cultures and ecoregions. Struggles in specific regions in obtaining sufficient resources (e.g. food in the Horn of Africa, water in Australia) will be discussed. Students will learn how dealing with these challenges is affected by different political beliefs.

1 United Nations, 1948. The Universal Declaration of Human Rights, <http://www.un.org/en/documents/udhr/index.shtml>

2 United Nations, 2010. The human right to water and sanitation, http://www.un.org/waterforlifedecade/human_right_to_water.shtml

3 United Nations, 2009. United Nations World Water Development Report (WWDR3), “Water in a Changing World”, <http://www.unesco.org/new/en/natural-sciences/environment/water/wwap/wwdr/wwdr3-2009/>

43. International:

This course is a prerequisite for the International Studies of Sustainable Natural Resources (ISSNR) concentration. Students enrolled in this concentration are required to study one semester abroad, which will allow them to compare and contrast challenges in sustainable resource management between regions drawing from first-hand experience. This course will prepare students for this experience by conducting a project on sustainable resource management that is focused on the country in which they will study.

Learning outcomes:

1. Students will demonstrate an understanding of the challenges and opportunities in natural resources sustainability.
2. Students will be able to compare and contrast issues in sustainable-resource use in different physical, cultural and developmental regions.
3. Through participation in a Departmental approved semester study-abroad sustainability program, students will develop intercultural knowledge with regard to approaches to sustainable

natural resource management.

e. **Q course:**

f. **W course:**

42. RESOURCES:

Does the department/school/program currently have resources to offer the course as proposed
YES

If NO, please explain why and what resources are required to offer the course.

43. SUPPLEMENTARY INFORMATION:

ADMIN COMMENT:

Senate approved new CA4 Intl course 11.11.13. GEOCAprvdEvote_091113. AddtlInfo-Box41.i.Added_090613kcp. INT\\L-DesigAdded_051513kcp. CARupdated_051313kcp. CA4rec addt\\l info re:how meets CA4_050112AP. newCA4_040412AP.

NRE 2600 Global Sustainable Natural Resources

Fall 2013

GENERAL INFORMATION AND COURSE OUTLINE

Objectives:

The main objectives for this course are 1) to expose students to the challenges and opportunities related to the sustainable management of natural resources, and 2) to prepare students for a study-abroad semester.

Objective 1: Sustainable Management of Natural Resources

This course focuses on the challenges that are faced in sustainably managing natural resources

throughout the world. First, students will be provided with a conceptual framework for sustainable natural resource management. This framework will be placed in the context of global changes, human needs and impacts, and the need to change our current practices in resource management.

Next, we will cover how natural resources can be managed sustainably, drawing from examples from across the globe. We will discuss the challenges we currently face in managing these resources and the opportunities available to manage them sustainably. Topics include marine and freshwater systems, forest systems, food production systems and urban developments.

Objective 2: Preparation for Study Abroad

This course is a prerequisite for the International Studies of Sustainable Natural Resources (ISSNR) concentration. Students enrolled in this concentration are required to study one semester abroad, which will allow them to compare and contrast challenges in sustainable resource management between regions drawing from first-hand experience. This course will prepare students for this experience by conducting a project on sustainable resource management that is focused on the country in which they will study.

Learning outcomes:

1. Students will demonstrate an understanding of the challenges and opportunities in natural resources sustainability.
2. Students will be able to compare and contrast issues in sustainable-resource use in different physical, cultural and developmental regions.
3. Through participation in a Departmental approved semester study-abroad sustainability program, students will develop intercultural knowledge with regard to approaches to sustainable natural resource management.

Instructors: Dr. John Volin, Young Building Room 308
Telephone: 6-0137
Email: john.volin@uconn.edu

Dr. Thijs Bosker, Young Building Room 230;

Telephone: 6-1677

Email: thijs.bosker@uconn.edu

Office Hours: By appointment

Lecture: Tuesday and Thursday, time TBA

Text: **Principles of Ecosystem Stewardship**, by F.S. Chapin III, G.P. Kofinas and C. Folke. *Springer Publisher*, 2009. ISBN: 978-0-387-73032-5

If you have any questions or concerns throughout the course about the course contents, or any of your assignments, please do not hesitate to email, call or see us.

GRADING FORMAT

	Date (Due Date)	
Two Midterms	TBA	40%
Final Exam (cumulative, with emphasis on 2nd part of course)	TBA	40%
Term Paper (sustainability focus as related to one of the approved study abroad programs)	TBA	20%

Note: all assignments must be typed.

Midterms and Final Exam:

Short-answer and essay questions. An example of an exam will be discussed prior to the midterm and the final exam. The week before the midterm and the last day of classes will be used as a review class, in which the practice exam will be discussed.

Term Paper:

The term paper will be focused on sustainability of natural resources as related to the region that one of the approved study abroad programs is located in. The term paper needs to be handed into the instructors in their offices as a hardcopy before 4:00 PM on the due date. **Every day late will result in a deduction of 5% of your mark.**

Marking Scheme:

A	94-100	B+	87-89.9	C+	77-79.9	D+	67-69.9	F	< 60
A-	90-93.9	B	83-86.9	C	73-76.9	D	63-66.9		
		B-	80-82.9	C-	70-72.9	D-	60-62.9		

Lectures

Part I: Conceptual Framework

Week 1: Understanding Change pp. 3-19

Week 2: The role of resilience in sustainable ecosystem management pp. 29-54

Week 3: Human well-being during social-ecological change pp. 55-76

Week 4: Adaptive Co-management in Social–Ecological Governance pp. 77-102

Week 5: Transformations in Ecosystem Stewardship pp. 103-128

Part II Stewarding Ecosystems for Society

Week 6: Conservation, Community, and Livelihoods: Sustaining, Renewing, and Adapting
Cultural Connections to the Land pp. 129-148

Week 7: Forest Systems: Living with Long-Term Change pp. 149-170

Week 8: Drylands: Coping with Uncertainty, Thresholds, and Changes pp. 171-196

Week 9: Freshwaters: Managing Across Scales in Space and Time pp. 197-220

Week 10: Oceans and Estuaries: Managing the Commons pp. 221-240

Week 11: Coastal Marine Systems: Conserving Fish and Sustaining Community Livelihoods
with Co-management pp. 241-258

Week 12: Managing Food Production Systems for Resilience pp. 259-280

Week 13: Cities: Managing Densely Settled Social–Ecological pp. 281-294

Week 14: The Earth System: Sustaining Planetary Life-Support Systems pp. 295-318

Part III Integration and Synthesis

Week 15: Resilience-Based Stewardship: Strategies for Navigating Sustainable Pathways in a Changing World