Agenda Item #15-29
Effective: Fall 2015

Eastern Illinois University

New/Revised Course Proposal Format

(Approved by CAA on 4/3/14 and CGS on 4/15/14, Effective Fall 2014)

Banner/Catalog Information (Coversheet)

1. **__X_ New Course or _____Revision of Existing Course**
2. **Course prefix and number:** ____ECN 5411_____
3. **Short title:** ___Sem Nat Reso and Environ Econ_____
4. **Long title:** __Seminar in Natural Resource and Environmental Economics_____
5. **Hours per week:** _3__ Class __0_ Lab _3__ Credit
6. **Terms:** _X__ Fall ___ Spring ___ Summer ___ On demand
7. **Initial term**: _X__ Fall ___ Spring ___ Summer Year: _2015_
8. **Catalog course description:** _Focusing on the special features of natural and environmental resources, this course will deal with optimal commercial exploitation of natural inputs, such as fish, trees, and minerals, using fishery models, forestry models, and mineral extraction models, and will then extend traditional curriculum to examine environmental issues.
9. **Course attributes:**

   General education component: _____

   ___ Cultural diversity ___ Honors ___ Writing centered ___ Writing intensive _X__Writing active

10. **Instructional delivery**
    Type of Course:

    _X_ Lecture ___ Lab ___ Lecture/lab combined ___ Independent study/research

    ___ Internship ___ Performance ___ Practicum/clinical _X__ Other, specify: _Technology_

    Mode(s) of Delivery:

    ___ Face to Face _X_ Online ___ Study Abroad

    ___ Hybrid, specify approximate amount of on-line and face-to-face instruction_____

11. Course(s) to be deleted from the catalog once this course is approved. ___None___
12. **Equivalent course(s):** _____

    a. Are students allowed to take equivalent course(s) for credit? ___ Yes _X_ No

13. **Prerequisite(s):** _ECN3810-Economics of Natural Resources, an Equivalent Course, or Permission of Instructor or Department Chair

    a. Can prerequisite be taken concurrently? ___ Yes _X_ No

    b. Minimum grade required for the prerequisite course(s)? ___

c. Use Banner coding to enforce prerequisite course(s)? _X_ Yes ___ No

d. Who may waive prerequisite(s)?

___ No one _X_ Chair _X_ Instructor ___ Advisor ___ Other (specify)

14. Co-requisite(s): __None_____

15. Enrollment restrictions

a. Degrees, colleges, majors, levels, classes which may take the course: _____

b. Degrees, colleges, majors, levels, classes which may not take the course: _____

16. Repeat status: ___ May not be repeated _X_ May be repeated once with credit

17. Enter the limit, if any, on hours which may be applied to a major or minor: ___

18. Grading methods: _X_ Standard ___ CR/NC __ Audit ___ ABC/NC

19. Special grading provisions:

___ Grade for course will not count in a student's grade point average.

___ Grade for course will not count in hours toward graduation.

___ Grade for course will be removed from GPA if student already has credit for or is registered in: _____

___ Credit hours for course will be removed from student's hours toward graduation if student already has credit for or is registered in: _____

20. Additional costs to students:
Supplemental Materials or Software_____

Course Fee _X_No ___Yes, Explain if yes_____

21. Community college transfer:

___ A community college course may be judged equivalent.

___ A community college may not be judged equivalent.

Note: Upper division credit (3000+) will not be granted for a community college course, even if the content is judged to be equivalent.

Rationale, Justifications, and Assurances (Part I)

1. ___Course is required for the major(s) of _____

   ___Course is required for the minor(s) of _____

   ___Course is required for the certificate program(s) of _____

   _X_ Course is used as an elective

2. **Rationale for proposal** : A rising demand for the proposed area of learning and a lack of faculty member in the Department of Economics make an online offering of the course feasible for now, with the help of a former faculty member. The course can also be offered for face to face instruction when the Department acquires a regular faculty of its own.

3. **Justifications for (answer N/A if not applicable)**

   Similarity to other courses: N/A

   Prerequisites: Natural resource and environmental economics is a specialized course that requires some specific techniques of analysis not emphasized in most other fields in economics. Having taken an undergraduate course in the area will help to understand the graduate course better. But a student without an undergraduate background in the field can still overcome the deficiency if the instructor finds that the student has the potential to do good work in the course and therefore removes the restriction on registration.
   Co-requisites: N/A

   Enrollment restrictions: N/A

   Writing active, intensive, centered: The goal is to encourage significant research for a deeper understanding of some important issues in the field. Several written assignments and a substantial term paper will be required.

4. **General education assurances (answer N/A if not applicable)**

   General education component: N/A

   Curriculum: N/A

   Instruction: N/A

   Assessment: N/A

5. **Online/Hybrid delivery justification & assurances (answer N/A if not applicable)**

   Online or hybrid delivery justification: Availability of an external instructor in the face of a strong demand for the course from Economics, Sustainable energy and other departments at EIU makes it feasible to offer an online version of the course at present. If the demand is sustained from EIU students, the course can also be offered in a face to face or hybrid setting when the Department acquires a regular faculty of its own.

   Instruction: Dr. Hui Li, a former faculty member in Economics at EIU, has shown strong interest in teaching the course for us. She has taught our ECN 3810: Environmental Economics online several times in the past.

   Integrity: Student integrity will be closely monitored by the instructor with help, if needed, from EIU technology personnel.

   Interaction: Interaction among students and between students and instructor is not only feasible but will be strongly encouraged by the instructor.

Model Syllabus (Part II)

Please include the following information:

1. Course number and title
   ECN5411: Seminar in Natural Resource and Environmental Economics

2. Catalog description
   Focusing on the special features of natural and environmental resources, this course will deal with optimal commercial exploitation of natural inputs, such as fish, trees, and minerals, using fishery models, forestry models, and minerals extraction models, and will then extend traditional curriculum to examine environmental resources.

3. Learning objectives
   Students will be expected to understand models that provide answers to optimal extraction and use of natural resources under long-term sustainability assumptions. They should be able to create their own models that mimic the actual state of natural resource or energy use and to then perform model analysis to predict future scenarios under diverse policy assumptions. Critical thinking, problem solving, and communication of research will remain integral parts of the course.

4. Course materials
   The following textbook will be required:
   Roger Perman, Yue Ma, Michael Common, David Maddison, and James Mcgilvray. *Natural Resource and Environmental Economics*. Addison-Wesley, 4th edition, 2011.

5. Weekly outline of content:

WEEK	LECTURE CONTENTS
1	Overview: current issues and research trends in natural resource and environmental economics
2	Fisheries: 1. A simple static model; 2. A simple dynamic model.
3	Fisheries: 3. Alternative dynamic model; 4. fisheries regulation; 5. extensions.
4	Forests: 1. Maximum sustained yield; ongoing private harvests; multiple-use forests.
5	Forests: 2. Empirical forest economics; 3. deforestation and current forestry management.
6	Minerals: 1. costless production case; 2. models with extraction costs; 3. competitive equilibrium with Hotelling costs.
7	Minerals: 4. Heher's interpretation of model with technical progress; and midterm exam.
8	Non-market resources: 1. revealed vs. stated preferences.
9	Non-market resources: 2. Hedonic property value and wage methods; 3. travel cost model.
10	Non-market resources: 4. Random utility models; 5. Contingent valuation
11	Common pool resources: 1. Property rights regimes; 2. open access and its dilemma.
12	Air: 1. Efficient control of pollution; 2. Tradable pollution permits.
13	Water: 1. Depletion and renewal; 2. Policies for sustainable water management.
14	Global Climate: 1. Causes and consequences of climate change; 2. Policy responses to climate change.
15	Paper presentation: 15-20 minutes oral presentation of research project.

6. Assignments and evaluation, including weights for final course grade.

Assignments	10 percent
Midterm Exam	25 percent
Research Paper	20 percent
Participation and Presentation	10 percent

Final Exam	35 percent
Total	**100 percent**

7. Grading scale: 90-100%: A 80-89%: B 70-79%: C 60-69%: D 59% or less: F

8. Correlation of learning objectives to assignments and evaluation.
The midterm and final exams, among other things, will closely assess whether students have fulfilled learning objectives.

Date approved by the department or school: ***16 February, 2015***
Date approved by the college curriculum committee: **April 3, 2015**
Date approved by the Honors Council ***(if this is an honors course):***
Date approved by CAA: *NA* **CGS:**