NEW COURSE FORM

1.	**General Information.**		
a.	Submitted by the College of: Agriculture	Today's Date:	9-24-11
b.	Department/Division: Natural Resources and Environmental Science		

c.	Contact person name:	Craig Infanger	Email:	craig.infanger@uky.edu	Phone:	257-7274

d.	Requested Effective Date:	☒ Semester following approval	OR	☐ Specific Term/Year[1] : _____

2.	**Designation and Description of Proposed Course.**
a.	Prefix and Number: NRE 390
b.	Full Title: Special Topics in Natural Resources and Environmental Science
c.	Transcript Title (if full title is more than 40 characters): (Subtitle required)
d.	To be Cross-Listed[2] with (Prefix and Number): _____
e.	Courses must be described by <u>at least one</u> of the meeting patterns below. Include number of actual contact hours[3] for each meeting pattern type.

1-3 Lecture	_____ Laboratory[1]	_____ Recitation	_____ Discussion	_____ Indep. Study
_____ Clinical	_____ Colloquium	_____ Practicum	_____ Research	_____ Residency
_____ Seminar	_____ Studio	_____ Other – Please explain: _____		

f.	Identify a grading system:	☒ Letter (A, B, C, etc.)	☐ Pass/Fail

g.	Number of credits: 1-3		
h.	Is this course repeatable for additional credit?	YES ☒	NO ☐
	If YES: Maximum number of credit hours: 6		
	If YES: Will this course allow multiple registrations during the same semester?	YES ☐	NO ☒

i.	Course Description for Bulletin:	This course focuses on unique and timely topics in natural resources and environmental science. May be repeated under a different subtitle for a maximum of six credits.

j.	Prerequisites, if any: NRE 301 or consent of instructor		
k.	Will this course also be offered through Distance Learning?	YES[4] ☐	NO ☒

l.	Supplementary teaching component, if any:	☐ Community-Based Experience	☐ Service Learning	☐ Both

3.	**Will this course be taught off campus?**	YES ☐	NO ☒

4.	**Frequency of Course Offering.**

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[1] Courses are typically made effective for the semester following approval. No course will be made effective until all approvals are received.

[2] The chair of the cross-listing department must sign off on the Signature Routing Log.

[3] In general, undergraduate courses are developed on the principle that one semester hour of credit represents one hour of classroom meeting per week for a semester, exclusive of any laboratory meeting. Laboratory meeting, generally, represents at least two hours per week for a semester for one credit hour. (from *SR 5.2.1*)

[4] You must *also* submit the Distance Learning Form in order for the proposed course to be considered for DL delivery.

NEW COURSE FORM

a.	Course will be offered (check all that apply):	☒ Fall	☒ Spring	☒ Summer		
b.	Will the course be offered every year?			YES ☒	NO ☐	
	If NO, explain:	_____				
5.	**Are facilities and personnel necessary for the proposed new course available?**			YES ☒	NO ☐	
	If NO, explain:	_____				
6.	**What enrollment (per section per semester) may reasonably be expected?**	15-20				
7.	**Anticipated Student Demand.**					
a.	Will this course serve students primarily within the degree program?			YES ☒	NO ☐	
b.	Will it be of interest to a significant number of students outside the degree pgm?			YES ☒	NO ☐	
	If YES, explain:	Should be of interest to students in Arts & Sciences as well as Agriculture.				
8.	**Check the category most applicable to this course:**					
	☒ Traditional – Offered in Corresponding Departments at Universities Elsewhere					
	☐ Relatively New – Now Being Widely Established					
	☐ Not Yet Found in Many (or Any) Other Universities					
9.	**Course Relationship to Program(s).**					
a.	Is this course part of a proposed new program?			YES ☐	NO ☒	
	If YES, name the proposed new program:	_____				
b.	Will this course be a new requirement[5] for ANY program?			YES ☐	NO ☒	
	If YES[5], list affected programs:	_____				
10.	**Information to be Placed on Syllabus.**					
a.	Is the course 400G or 500?			YES ☐	NO ☒	
	If YES, the *differentiation for undergraduate and graduate students must be included* in the information required in **10.b**. You must include: (i) identification of additional assignments by the graduate students; and/or (ii) establishment of different grading criteria in the course for graduate students. (See *SR 3.1.4*.)					
b.	☒	The syllabus, including course description, student learning outcomes, and grading policies (and 400G-/500-level grading differentiation if applicable, from **10.a** above) are attached.				

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[5] In order to change a program, a program change form must also be submitted.

NEW COURSE FORM

Signature Routing Log

General Information:

Course Prefix and Number: NRE 390

Proposal Contact Person Name: Craig Infanger   Phone: 257-7274   Email: craig.infanger@uky.edu

INSTRUCTIONS:
Identify the groups or individuals reviewing the proposal; note the date of approval; offer a contact person for each entry; and obtain signature of person authorized to report approval.

Internal College Approvals and Course Cross-listing Approvals:

Reviewing Group	Date Approved	Contact Person (name/phone/email)	Signature
NRES Steering Committee	9/26/11	Mary Arthur / 257-2852 / marthur@uky.edu	
Undergraduate Curr Comm	10/14/11	Larry Grabau / 7-3469 / larry.grabau@uky.edu	
		/ /	
		/ /	
		/ /	

External-to-College Approvals:

Council	Date Approved	Signature	Approval of Revision[6]
Undergraduate Council	10/25/2011	Sharon Gill	
Graduate Council			
Health Care Colleges Council			
Senate Council Approval		University Senate Approval	

Comments:

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[6] Councils use this space to indicate approval of revisions made subsequent to that council's approval, if deemed necessary by the revising council.

NRE 390
Special Topics in Environmental Science:
Fundamentals of Environmental Education

Instructor: Dr. Craig L. Infanger
Office Address: 415 Barnhart Bldg.
Email: craig.infanger@uky.edu
Office Phone: 257-7274

Office hours: Monday and Wednesday
                          2 to 3:30 PM

Course Description:
This course focuses on unique and timely topics in natural resources and environmental science. May be repeated under a different subtitle for a maximum of six credits.

Prerequisites: NRE 301 or consent of instructor

Student Learning Outcomes:
1. Students will be able to identify learning styles for age-defined audiences (youth, young adult, mature adult, seniors) and educational settings (formal, nonformal) in order to design environmental education objectives targeting the appropriate stage of learning (knowledge, comprehension, application, analysis, synthesis) for the intended environmental audience.
2. Students will understand and be able to describe the differences between important topical areas in environmental education, such as Outdoor Education, Wilderness Education, Adventure Education, Nature Interpretation, Environmental Literacy Education, and Environmental Experiential Education.
3. Students will be able articulate the scope of a pilot environmental education program, identify appropriate learning objectives, create appropriate learning activities to accomplish the objectives (e.g., interpretation, displays, field trips, reports, models, etc.), and implement a pilot environmental education module with a selected age-defined set of learners.

Required text: **Environmental Education in the 21st Century: Theory, Practice, and Progress** by Joy Palmer (Psychology Press)

Course Activities and Assignments: There is a web site for NRE 390. This web site contains a copy of this syllabus, the lecture topics, reading assignments, study assignment due dates, the class activities, and other materials related to the class. The class web site is intended to help link students with other materials related to the course material. In addition, some class materials may also be posted at this site. The instructional format is lecture, outside readings, study assignments, in-class discussion and participation, and an environmental education pilot module. Reading assignments

will be given from the required text, as well as other articles, books, journals, and government reports or from material posted on the class web page or accessed on the WWW. Regular class attendance and participation are expected but attendance will not be recorded.

Study assignments will be used to encourage students to actively engage in the learning process about EE. Each Study Assignment will have specific instructions, due dates, and variable point values. The maximum total points to be earned on study assignments will be 380, however additional study assignments may be submitted for extra credit. All study assignments will be returned to students during the mid-term exam for consultation while writing the exam.

Course Grading: There will be 1000 total points possible. Students will be graded on study assignments (400 points maximum), class participation and discussion (50 points), an environmental education module (350 points), and a mid-term examination (200 points). There will be no final examination. The environmental education project will be conducted in teams and evaluated by a small group which includes one classmate, the instructor, and an outside reviewer. In grading the EE module, these criteria will be applied:

   --Systematic creation of educational plan for an environmental education module (objectives, activities) targeted to an age-specific audience which addresses a community-level environmental topic;
   --Development of a creative and appropriate instructional strategy and learning activities;
   --Teaching the module with an actual community or school-based audience;
   --Ex-post assessment of learning achievement.

Letter grades will be based on the following performance standards:

91%-100%	=	A
81%-90%	=	B
71%-80%	=	C
61%-70%	=	D
below 61%	=	E

   Grades will be posted on the class web page for those students supplying a PIN. If you have questions about a grade, email the Class Assistant. For the class discussion and participation points, 25 points will be deducted each time a student is absent or unprepared to adequately respond during lecture to questions about the study assignments during class. Every student will be allowed to use <u>one</u> FREE PASS to restore 25 class participation points.

Final Exam Information: There is no final exam.

Mid-term Grades: Mid-term grades will be posted in myUK by the deadline established in the Academic Calendar (http://www.uky.edu/Registrar/AcademicCalendar.htm)

Course Policies:

Submission of Assignments: All study assignments can be submitted in hand-written or word-processed form. Study assignment not turned in on-schedule will be penalized 15%. The Mid-Term Exam will be conducted in-class and will be hand-written, using study assignments. The Environmental Education Project will be word-processed. All team members on the educational project receive the same grade. The penalty for late completion of the Environmental Education Project will be -33%. Grades will be posted periodically on the class web page by PIN, for those students wanting online access to grades.

Attendance Policy: Regular class attendance and participation are expected but attendance will not be recorded. A request for an <u>excused absence</u> should be made at least one class period <u>before</u> the absence is to occur. Any exam or assignment missed because of an <u>excused</u> <u>absence</u> must be made up within one week of the due date. Read and be familiar with UK's policies on Excused Absences and Verification of Absences (below).

Excused Absences:
Students need to notify the professor of absences prior to class when possible. S.R. 5.2.4.2 defines the following as acceptable reasons for excused absences: (a) serious illness, (b) illness or death of family member, (c) University-related trips, (d) major religious holidays, and (e) other circumstances found to fit "reasonable cause for nonattendance" by the professor.

Students anticipating an absence for a major religious holiday are responsible for notifying the instructor in writing of anticipated absences due to their observance of such holidays no later than the last day in the semester to add a class. Information regarding dates of major religious holidays may be obtained through the religious liaison, Mr. Jake Karnes (859-257-2754).

Students are expected to withdraw from the class if more than 20% of the classes scheduled for the semester are missed (excused or unexcused) per university policy.

Verification of Absences:
Students may be asked to verify their absences in order for them to be considered excused. Senate Rule 5.2.4.2 states that faculty have the right to request "appropriate verification" when students claim an excused absence because of illness or death in the family. Appropriate notification of absences due to university-related trips is required prior to the absence.

Academic Integrity: The study assignments, the mid-term exam, and the EE project are expected to be the products of your own investigation, thinking, and writing. Plagiarism and cheating will not be tolerated. This warning should be underscored

for material obtained from the internet. Some students have erroneously assumed that material on the internet is somehow "public domain" and can be re-typed or "copied and pasted" for submission as original work.

Per university policy, students shall not plagiarize, cheat, or falsify or misuse academic records. Students are expected to adhere to University policy on cheating and plagiarism in all courses. The minimum penalty for a first offense is a zero on the assignment on which the offense occurred. If the offense is considered severe or the student has other academic offenses on their record, more serious penalties, up to suspension from the university may be imposed.

Plagiarism and cheating are serious breaches of academic conduct. Each student is advised to become familiar with the various forms of academic dishonesty as explained in the Code of Student Rights and Responsibilities. Complete information can be found at the following website: http://www.uky.edu/Ombud. A plea of ignorance is not acceptable as a defense against the charge of academic dishonesty. It is important that you review this information as all ideas borrowed from others need to be properly credited.

Part II of *Student Rights and Responsibilities* (available online http://www.uky.edu/StudentAffairs/Code/part2.html) states that all academic work, written or otherwise, submitted by students to their instructors or other academic supervisors, is expected to be the result of their own thought, research, or self-expression. In cases where students feel unsure about the question of plagiarism involving their own work, they are obliged to consult their instructors on the matter before submission.

When students submit work purporting to be their own, but which in any way borrows ideas, organization, wording or anything else from another source without appropriate acknowledgement of the fact, the students are guilty of plagiarism. Plagiarism includes reproducing someone else's work, whether it be a published article, chapter of a book, a paper from a friend or some file, or something similar to this. Plagiarism also includes the practice of employing or allowing another person to alter or revise the work which a student submits as his/her own, whoever that other person may be.

 Students may discuss assignments among themselves or with an instructor or tutor, but when the actual work is done, it must be done by the student, and the student alone. When a student's assignment involves research in outside sources of information, the student must carefully acknowledge exactly what, where and how he/she employed them. If the words of someone else are used, the student must put quotation marks around the passage in question and add an appropriate indication of its origin. Making simple changes while leaving the organization, content and phraseology intact is plagiaristic. However, nothing in these Rules shall apply to those ideas which are so generally and freely circulated as to be a part of the public domain (Section 6.3.1).

Please note: Any assignment you turn in may be submitted to an electronic database to check for plagiarism.

Accommodations due to disability:
If you have a documented disability that requires academic accommodations, please see me as soon as possible during scheduled office hours. In order to receive accommodations in this course, you must provide me with a Letter of Accommodation from the Disability Resource Center (Room 2, Alumni Gym, 257-2754, email address: jkarnes@email.uky.edu) for coordination of campus disability services available to students with disabilities.

Classroom Behavior Policies: Turn off cell phones and other electronic devices when entering class. During any examination use of any recording device or communications device that will allow you to connect to any other person or place outside the classroom will be considered cheating. This means no cell phones, iPods, PDAs, Blackberries, or related devices.

Tentative Course Schedule:

Date	Lectures topics and activities	Assignments
Week 1	Introduction to Environmental Education (EE)	In-class assessment assignment, student background info, class overview
Weeks 2-4	Learning styles, principles of EE	Online reading assignments posted on class web site **Study Assignment**: Prepare a matrix which describes learning styles on one axis and age-defined learners on the other axis. Summarize the challenges and opportunities for EE in each cell of the matrix.
Weeks 5-7	Theory and goals of EE, topical areas of EE, approaches and strategies to EE	**Reading:** Text, Part I Study Assignment: Prepare a one page summary of topical areas in EE and identify your team's selection of an area for the EE pilot module. **Reading**: Text, Part III **Study Assignment**:

		Summarize the major trends in EE in terms of approaches and strategies. Tentatively identify one approach for your EE module.
Week 8	Review and Mid-Term Examination	In-class examination, grading, and review discussion
Weeks 9-11	The practice of EE; observation of EE programs in the community; design and review of EE pilot project modules (by team)	**Reading:** Text, Part IV **Study Assignment**: Visit and observe two community or school-based environmental education events/lessons and write a one page summary about goals and techniques; oral reports in class by teams **EE Module:** Complete initial design of each team's pilot module
Week 12	EE module testing and re-design	**Study Assignment**: Conduct a 'dry run' of your team's EE module and write a one-page summary of reactions and re-design approaches
Weeks 13-15	Implement EE projects with peer and outside evaluation	**Study Assignment:** Present and assess your EE module. Observe and evaluate two other EE modules during presentation times with targeted audiences.
Week 16	Assessment of EE projects and class evaluation; the future of EE	**Study Assignment**: Two-page written summary of EE pilot module performance; assessment of other team's EE modules, and lessons learned **Reading:** Text, Part VI Formal class evaluation