

## NEW COURSE FORM

### 1. General Information.

- a. Submitted by the College of: Arts & Sciences Today's Date: Sept. 21, 2012
- b. Department/Division: Chemistry
- c. Contact person name: David Atwood Email: datwood@uky.edu Phone: 257-7304
- d. Requested Effective Date:  Semester following approval OR  Specific Term/Year<sup>1</sup>: Spring 2013

### 2. Designation and Description of Proposed Course.

- a. Prefix and Number: ENS 202
- b. Full Title: Environmental & Sustainability Studies II: Natural Science and Policy
- c. Transcript Title (if full title is more than 40 characters): Env. & Sust. Stud. I: Nat. Sci. & Policy
- d. To be Cross-Listed<sup>2</sup> with (Prefix and Number): N/A
- e. Courses must be described by at least one of the meeting patterns below. Include number of actual contact hours<sup>3</sup> for each meeting pattern type.
- |                |                               |                                     |                  |                    |
|----------------|-------------------------------|-------------------------------------|------------------|--------------------|
| 3 Lecture      | _____ Laboratory <sup>1</sup> | _____ 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: 3
- h. Is this course repeatable for additional credit? YES  NO
- If YES: Maximum number of credit hours: N/A
- If YES: Will this course allow multiple registrations during the same semester? YES  NO

i. Course Description for Bulletin:

This is an introduction to natural science and policy as they pertain to understanding environmental studies. The core ideas include understanding how the ecological theories of population dynamics, community structure, and ecosystems dynamics lay a scientific foundation to understanding the nature of current environmental issues and how they might be addressed individually and through governmental legislation.

- j. Prerequisites, if any: None
- k. Will this course also be offered through Distance Learning? YES<sup>4</sup>  NO
- l. Supplementary teaching component, if any:  Community-Based Experience  Service Learning  Both
3. Will this course be taught off campus? YES  NO

<sup>1</sup> Courses are typically made effective for the semester following approval. No course will be made effective until all approvals are received.

<sup>2</sup> The chair of the cross-listing department must sign off on the Signature Routing Log.

<sup>3</sup> 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)

<sup>4</sup> You must *also* submit the Distance Learning Form in order for the proposed course to be considered for DL delivery.

## NEW COURSE FORM

**4. Frequency of Course Offering.**

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?**    30

**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:    This course would be appropriate for General Education Credit under categories I.a and I.c

**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.A. in Environmental & Sustainability Studies

b. Will this course be a new requirement<sup>5</sup> for ANY program?    YES     NO

If YES<sup>5</sup>, list affected programs:    B.A. in Environmental & Sustainability Studies

**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.

<sup>5</sup> 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:    ENS 202

Proposal Contact Person Name:    David Atwood                      Phone: 257-7304    Email: datwood@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
		/    /	
		/    /	
		/    /	
		/    /	
		/    /	

**External-to-College Approvals:**

Council	Date Approved	Signature	Approval of Revision <sup>6</sup>
Undergraduate Council			
Graduate Council			
Health Care Colleges Council			
Senate Council Approval		University Senate Approval	

Comments:

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

**ENS 202-001: Environmental and Sustainability Studies II: Natural Science and Policy**

**Day/Time/Place: TBD**

**Instructor: TBD**

**Email: TBD**

**Office phone: TBD**

**Office address: TBD**

**Preferred method on contact: TBD**

**Office Hours: days and times TBD**

**Teaching/Grad. Assist: TBD**

**email: TBD**

**Overview of course**

This is an introduction to Natural Science and Policy as they pertain to understanding environmental studies. The core ideas include understanding how the ecological theories of population dynamics, community structure, and ecosystems dynamics lay a scientific foundation to understanding the nature of current environmental issues and how they might be addressed individually and through governmental legislation.

**Student Learning Outcomes:**

Upon completion of this course students will be able to:

- Understand basic ecological theory from a scientific perspective.
- Explain the reasons for existing environmental problems.
- Understand different approaches and strategies to solve existing environmental problems.
- Impact of urban and rural development on ecosystems and habitats
- Sustainable land management (and ecosystem protection)
- Show how environmental policies require fundamental science

**Course Goals/Objective:**

The goal of this course is to show students that ecological theory can explain existing environmental problems, and that understanding ecological theory will provide a foundation for solving them.

**Required textbooks:**

This course has one textbook:

- Chiras, Daniel 2010. Environmental Science (8<sup>th</sup> edition). Sudbury, MA: Jones and Bartlett Publishing.

**Grading:**

The course consists of three components for the grade:

Exams: Two over the course of the semester, each 15%	30 %
Assignment:	40 %
Final Exam (comprehensive)	20%
Participation	10 %

Final grades are calculated based on the following breakdown:

- A = 90% and above
- B = 80-89%
- C = 70-79%
- D = 60-69%
- E = 59% and below

**Course Requirements:** Students must complete all assignments and exams in order to pass the class.

Exams (two semester exams 15% each for total of 30%, final exam 20%): Approximately every six weeks there will be an exam through which students demonstrate their mastery of both content knowledge (gained through class lectures, discussion, and activities and course readings), and critical thinking. Each exam will be graded on a 100 point scale, and worth 15% of the final grade. The final exam (worth 20% of the final grade), will cover the new material introduced during the last third of the class AND key ideas, concepts and knowledge gained from the entirety of the course.

Assignment (40%): At the beginning of the semester, each student will select an environmental topic of interest that needs to be approved by the instructor. During the course of the semester, each student will then collect a minimum of ten published news articles on the subject. These articles will be organized in a notebook. Each article will include a brief review of the significant points in the article. Each student will then generate a typed five page synopsis of these articles describing problems faced, prevailing controversies, and potential solutions.

Participation: Participation during class discussions is one of the best ways to facilitate learning of the class material. Participation includes engaging in all class activities (debates, role playing, group exercises) as well as offering insightful and useful comments during discussion. Simply speaking does not count towards participation (beware the class clown); comments should further the conversation and indicate reflective thinking. Additionally, participation will frequently include participating in “discussions” via blackboard, and posting comments to the various group projects produced during the semester. The participation grade will be given in two “installments”: half will be given at the mid-term and the other half at the end of the semester (for a maximum of 10% of the total grade)

**Chapter Coverage and Examination Dates:**

<b>Week</b>	<b>Topic</b>	<b>Chapter</b>
1	Principles of Ecology: How Ecosystems Work	4
2	Principles of Ecology: Biomes and Aquatic Life Zones	5
3	Principles of Ecology: Self-Sustaining Mechanisms in Ecosystems	6
4	Human Ecology: Our Changing Relationship with the Environment	7
<b>Exam 1</b>		
5	Population: Measuring Growth and Its Impact (review of ENS 201 material)	8
6	Stabilizing the Human Population: Strategies for Sustainability (review of ENS 201 material)	9
7	Creating a Sustainable System of Agriculture to Feed the World's People	10
8	Preserving Biological Diversity	11
<b>Exam 2</b>		
9	Grasslands, Forests, and Wilderness: Sustainable Management Strategies	12
10	Water Resources: Preserving Our Liquid Assets and Protecting Aquatic Ecosystems	13
11	Nonrenewable Energy Sources	14
12	Foundations of a Sustainable Energy System: Conservation and Renewable Energy	15
13	The Earth and Its Mineral Resources	16
14	Creating Sustainable Cities, Suburbs, and Towns:	17
15	Air Pollution and Noise: Living and Working in a Healthy Environment	19
16	Global Air Pollution: Ozone Depletion, Acid Deposition, and Global Climate Change	20
<b>Finals week, Final Exam</b>		

**Class policies:**

1. Absences: After one unexcused absence from class a student's grade will drop by 2% points per absence. Excused absences are given only: a) with presentation of a VALID MEDICAL or EMERGENCY excuse, IN WRITING (written by a medical doctor), b) with a death in the family (copy of the obituary required), or c) by pre-arrangement with the professor.
  - a. Arrival 10 minutes or more after the start of discussion section constitutes an absence. Departure 10 minutes before the end of discussion section constitutes an absence.
  - b. If you will be absent from class due to a religious holiday that is not already recognized by the university, you must inform and discuss this (these) absence(s) with your Professor.
  - c. If you are a university athlete, you must have your travel/absence schedule approved by the professor. You must present a written schedule of anticipated absences. This schedule must identify the specific dates you will be absent (not the whole schedule of athletic events), and must also give a phone number for the athletic coordinator who knows your schedule. If you anticipate missing more than 3 discussion section meetings during the semester, you should withdraw from the course this semester, and take the course at a time when it does not conflict with your extracurricular activities. (If you anticipate missing only 2 discussion section meetings due to athletic commitments, those absences will stand as "free" absences, and you will suffer the 30 point drop per absence after the two).
  - d. After eight (8) total absences (excused and unexcused), you will receive a failing grade in the course.
2. Make-up exams: A student may not take a make-up quiz unless s/he has an excused absence. Excused absences are given only: a) with presentation of a VALID MEDICAL or EMERGENCY excuse, IN WRITING (written by a medical doctor), b) with a death in the family (copy of the obituary required), or c) by pre-arrangement with the professor. Any other failure to take a quiz when it is scheduled will result in no credit for the quiz (0%). If you do have an excused absence and need to make up a quiz, you must make arrangements with your TA to take the makeup within a week of the quiz date.
3. Late assignments: Due dates and TIMES are listed in the schedule. Unless a student has an excused absence (see above), the instructor will not accept late assignments. If you have a problem completing your assignment on time, you need to communicate with your instructor immediately. If your assignment is not accepted because it is late, you will receive 0 (zero) points for the assignment. If you do not turn in an assignment you will receive 0 (zero) points.
4. Cheating / Plagiarizing: A few simple words: don't do it. For purposes of clarity, cheating includes copying or "borrowing" answers from others on quizzes, citing others' work as your own in essays, and plagiarizing or taking material verbatim from texts, lectures, and articles (including anything from web-

sites) without proper citation of the author(s). All such incidents will be handled according to University policy as outlined in the *University Senate Rules* and *Student Rights and Responsibilities*. The minimum punishment for cheating or plagiarism is an "E" in the course. This is University Policy.

5. Classroom civility and decorum: The university, college and program have a commitment to respect the dignity of all and to value differences among members of our academic community. There exists the role of discussion and debate in academic discovery and the right of all to respectfully disagree from time-to-time. Students clearly have the right to take reasoned exception and to voice opinions contrary to those offered by the instructor and/or other students (S.R. 6.1.2). Equally, a faculty member has the right -- and the responsibility -- to ensure that all academic discourse occurs in a context characterized by respect and civility. Obviously, the accepted level of civility would not include attacks of a personal nature or statements denigrating another on the basis of race, sex, religion, sexual orientation, age, national/regional origin or other such irrelevant factors.
6. Academic 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](mailto:jkarnes@email.uky.edu)) for coordination of campus disability services available to students with disabilities.





College of Arts and Sciences  
Office of the Dean  
213 Patterson Office Tower  
Lexington, KY 40506-0027  
859 257-5821  
fax 859 323-1073  
www.as.uky.edu

January 5, 2011

Professor David Atwood  
Director, Environmental Studies Program  
125 Chemistry/Physics Building  
CAMPUS 0055

Dear David,

I am writing to express my enthusiastic support for the new Environmental & Sustainability Studies (ENS) B.A. Degree that you and the ENS Advisory Board devised last semester. The College fully intends to provide the resources needed to make this degree program a successful one. Indeed, when I initiated this process of designing a BA program last spring, I recognized that it would be necessary to commit College of Arts & Sciences resources to support it. Below is outlined the specific items of support that the College will provide.

### **I. Staff and Budget**

Ms. Kari Burchfield, the College's Interdisciplinary Program Coordinator, has worked closely with you and the Board during the planning process. Ms. Burchfield or another staff member designated by the College will provide administrative support for the ENS Degree Program in the future. In the past, the College has allocated \$8,000 in operating expenses to the ENS Minor Degree. It pledges to provide at least this amount in future years to support the ENS B.A. and ENS Minor degrees. Additional operating expenses will be allocated to the program as the number of majors' increases.

### **II. Core Courses**

The ENS B.A. degree has seven core courses: ENS 201, ENS 202, ENG 205 (which will become WRD 205), PHI 336, ENS 395, and ENS 400. These courses will be taught by professors and lecturers from College departments and count as part of the normal teaching loads of those faculty. The College will provide any extra teaching resources to their home departments that are needed to maintain the integrity of these departments' curricula.

The two presently existing courses on this list, PHI 336 and ENG 205 (WRD 205), are annually offered in the fall and spring respectively. Should demand for these two courses rise as a result of the B.A. degree, the College will provide the Philosophy and Writing, Rhetoric, and Digital Media units with the resources needed to add course sections.

### III. ENS Minor

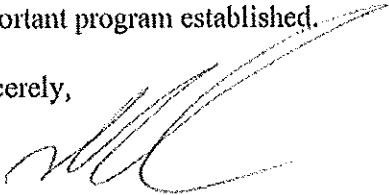
The College wants regular faculty, as opposed to part-time instructors, to teach its courses. I recognize, however, that there is a need for Dr. Rebecca Glasscock (of BCTC) to continue as the instructor for ENS 200, the initial course in the ENS Minor, until the new ENS B.A. program is established. When ENS 200 is replaced by ENS 201, ENS 201 will be taught by regular UK faculty alone.

### IV. Faculty Hiring

The College is committed to adding a faculty line in the area of ENS, to be hired in the 2011-12 academic year. The tenure home of the hire is open, and the College is particularly interested in hiring someone with a joint appointment in a second department. The person should be hired in a field identified by the Advisory Board as one of acute need in the College in the general area of ENS. The College is open to the possibility of additional hires in this general area, for instance, in the areas of environmental ethics or writing. I expect that in any hiring process you and the Advisory Board will work with relevant departments to identify and recruit appropriate candidates.

I appreciate the diligence and effort that you and the Advisory Board expended to achieve the goal of a new environmental degree for the College. I greatly look forward to seeing this important program established.

Sincerely,



Mark Lawrence Kornbluh  
Dean

MLK:akh

cc: Ted Schatzki, Associate Dean of Faculty  
Betty Lorch, Associate Dean of Research and Graduate Studies  
Anna Bosch, Associate Dean of Undergraduate Programs  
Kirsten Turner, Chief Financial Officer/Chief of Staff  
Kathleen Harman, Director of Finance

**Atwood, David A**

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To: Mountford, Roxanne D  
Subject: RE: Quick email confirming inclusion of ENG 205 into ENS B.A. Degree Program?

-----Original Message-----

From: Mountford, Roxanne D  
Sent: Thursday, December 09, 2010 9:32 PM  
To: Atwood, David A  
Subject: RE: Quick email confirming inclusion of ENG 205 into ENS B.A. Degree Program?

This is incredibly impressive! We're working on a BA in writing, rhetoric, and digital media, with an established course in Environmental Writing. We won't be done in time for you to include the course in your BA, but our intention is for you to replace 205 with this course in the near future. I just want you to know, though, that we're working on it! In the meantime, you have our permission to include 205 in your list.

Roxanne

Roxanne Mountford, PhD  
Director, Division of Writing, Rhetoric, and Digital Media Co-Director, Composition and Communication Program Associate Professor of Rhetoric University of Kentucky  
[mountford@uky.edu](mailto:mountford@uky.edu)

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From: Atwood, David A  
Sent: Thursday, December 09, 2010 8:29 PM  
To: Mountford, Roxanne D  
Subject: Quick email confirming inclusion of ENG 205 into ENS B.A. Degree Program?

Hi Roxanne,

I know you've already indicated that we can include ENG 205 as a Core course in the new ENS Degree, but I've been advised to give you a description of the program to make sure you had the information. Nothing has changed in the attached document compared to what Erik might have described to you, but it would let you see the degree plans in more detail. If you can let me know we are still okay to include ENG 205 that would be great.

Once I have your okay (and similar responses from a couple of other Chairs) I will be able to submit the full documentation package to the College. I'll send you a copy of the full submission, as well. Looks like we might actually be able to make this happen for fall 2011, but it will be a long journey through the committees...

Thanks much,  
David

**Atwood, David A**

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**To:** Bradshaw, David H  
**Subject:** RE: PHI 336 in ENS Degree

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**From:** Bradshaw, David H  
**Sent:** Tuesday, December 14, 2010 12:04 PM  
**To:** Atwood, David A  
**Cc:** Sandmeyer, Robert  
**Subject:** RE: PHI 336 in ENS Degree

Dear Prof. Atwood - Sorry for the delay getting back to you about this. I've read the ENS proposal and am certainly glad to support the plan to include PHI 336 as a core course. One minor caution is that we currently offer only two sections of this course per year, so if demand grows beyond that we may need to discuss with the College ways to expand our offerings. That's a bridge to be crossed later, and in no way tempers our enthusiasm about the proposal.

Best wishes,  
David Bradshaw

Professor and Chair  
Philosophy Department  
University of Kentucky  
Lexington, KY 40506-0027

office (859) 257-7107  
fax (859) 257-3286

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**From:** Sandmeyer, Robert  
**Sent:** Friday, December 10, 2010 12:57 PM  
**To:** Bradshaw, David H  
**Cc:** Atwood, David A  
**Subject:** PHI 336 in ENS Degree

Hi David,

David Atwood is putting together the final draft documents for the B.A. Degree in Environmental and Sustainability Studies proposal. See the attached PDF which contains the information regarding the structure and content of the degree. (I direct your attention to page 4 and 6, especially.)

He needs an email from you saying that including PHI 336 in the new ENS B.A. is okay.

Let me know if you have any questions. You can also contact David directly with questions.

Bob

Bob Sandmeyer, Ph.D.  
Lecturer, University of Kentucky  
Department of Philosophy  
1429 Patterson Office Tower  
Lexington, KY 40506-0027  
USA

**From:** "M. Smith" <mssmith@email.uky.edu>

**Date:** Fri, 30 Mar 2012 10:34:35 -0400

**To:** Mike Mullen <mmullen@uky.edu>, "Grabau, Larry" <larry.grabau@uky.edu>, Mark Kornbluh <kornbluh@uky.edu>, "Arthur, Mary" <marthur@uky.edu>

**Subject:** FW: ENS proposal

Mike,

This is in response to the request from Undergraduate Council that I comment on the proposed ENS degree proposal. As you are well aware, this proposal has generated much attention and a variety of concerns from our faculty. Ultimately the Sustainable Ag program leadership chose to endorse the proposal. Our NRES leadership requested changes. However, I am certain we all share a common goal of collaborating with A&S and other colleges to develop a complimentary and synergistic portfolio of student options in environment and sustainability. As long and winding as it was, I feel this process sets a truly important precedent for collaboration of university and college administration and faculty across college lines.

On behalf of the College of Agriculture, I want to express my appreciation to David Atwood and other faculty leaders of the ENS proposal for their responsiveness to those valid questions raised by our NRES leadership. My own opinion is that much progress has been made in both defining and differentiating ENS and NRES.

I believe that any remaining issues are manageable. Going forward they can and should be addressed collaboratively as ENS is implemented and NRES develops. It appears that a significant remaining source of concern from NRES relates to the comparison of the two majors with regard to career options and opportunities. I have invited Mary Arthur to recommend possible edits of the pertinent table in the proposal. This is attached. My request is that you and David and, presumably the UC, consider these proposed edits before the approved ENS proposal moves on. Of course, we would like to know the final wording, and we are available for any necessary discussion.

Earlier in the development of the ENS proposal, I stated that the College administration was not taking a position for or against its approval, but at the same time I did endorse the continuation of the discussion/review process. All along my hope has been that working through the UC process, with full and open debate among the faculty leaders, we would build a mutually beneficial partnership between A&S and Ag that will greatly advance our undergraduate environmental studies opportunities. While there is much work remaining, in my judgment we are on that path. I accept that you and the UC will move the ENS proposal forward, and I commit to supporting the synergy between ENS and NRES.

