

DEPARTMENT Environmental and Ecological Engineering EFFECTIVE SESSION Spring 2012 (201220)

INSTRUCTIONS: Please check the items below which describe the purpose of this request.

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> 1. New course with supporting documents | <input type="checkbox"/> 7. Change in course attributes (department head signature only)  |
| <input type="checkbox"/> 2. Add existing course offered at another campus   | <input type="checkbox"/> 8. Change in instructional hours                                 |
| <input type="checkbox"/> 3. Expiration of a course                          | <input type="checkbox"/> 9. Change in course description                                  |
| <input type="checkbox"/> 4. Change in course number                         | <input type="checkbox"/> 10. Change in course requisites                                  |
| <input type="checkbox"/> 5. Change in course title                          | <input type="checkbox"/> 11. Change in semesters offered (department head signature only) |
| <input type="checkbox"/> 6. Change in course credit/type                    | <input type="checkbox"/> 12. Transfer from one department to another                      |

**PROPOSED:**

**EXISTING:**

Subject Abbreviation EEE Subject Abbreviation \_\_\_\_\_  
 Course Number 39000 Course Number \_\_\_\_\_  
 Long Title EEE Professional Practice Seminar  
 Short Title EEE Prof. Pract. Sem.

**TERMS OFFERED**  
Check All That Apply:

Fall  Spring  Summer

**CAMPUS(ES) INVOLVED**

Calumet  N. Central  
 Cont Ed  Tech Statewide  
 Ft. Wayne  W. Lafayette  
 Indianapolis

Abbreviated title will be entered by the Office of the Registrar if omitted. (30 CHARACTERS ONLY)

**CREDIT TYPE**

1. Fixed Credit: Cr. Hrs. 1  
 2. Variable Credit Range:  
 Minimum Cr. Hrs. \_\_\_\_\_  
 (Check One) To  Or   
 Maximum Cr. Hrs. \_\_\_\_\_  
 3. Equivalent Credit: Yes  No

**COURSE ATTRIBUTES: Check All That Apply**

1. Pass/Not Pass Only   
 2. Satisfactory/Unsatisfactory Only   
 3. Repeatable   
 Maximum Repeatable Credit:   
 4. Credit by Examination   
 5. Special Fees   
 6. Registration Approval Type  
 Department  Instructor   
 7. Variable Title   
 8. Honors   
 9. Full Time Privilege   
 10. Off Campus Experience

ScheduleType	Minutes Per Mtg	Meetings Per Week	Weeks Offered	% of Credit Allocated
Lecture	50	1	16	100
Recitation				
Pr. ntation				
l atory				
Lab Prep				
Studio				
Distance				
Clinic				
Experiential				
Research				
Ind. Study				
Pract/Observ				

RECEIVED  
 2011 SEP 19 AM 9:59  
 Cross Listed Courses

**COURSE DESCRIPTION (INCLUDE REQUISITES/RESTRICTIONS):**

Seminar lectures and discussions to introduce students to aspects of professional practice within Environmental and Ecological Engineering. Topics include career planning and placement skills, professional responsibility and ethics, functioning as a professional, and other current important topics in the profession. Students will interact with several practicing Environmental and Ecological Engineers. Restrictions: Open only to students in the BSEEE degree program, or with consent of instructor.

**\*COURSE LEARNING OUTCOMES:**

Successful students in this course will develop professional skills that will allow them to enter into the profession of Environmental and Ecological Engineering. Specifically, they will gain an understanding of major professional issues, begin development of a personal approach to ethical professionalism, gain experience in professional communication, and gain a knowledge of the range of opportunities available in the profession.

Calumet Department Head _____ Date _____	Calumet School Dean _____ Date _____
Fort Wayne Department Head _____ Date _____	Fort Wayne School Dean _____ Date _____
Indianapolis Department Head _____ Date _____	Indianapolis School Dean _____ Date _____
Central Faculty Senate Chair _____ Date _____	Vice Chancellor for Academic Affairs _____ Date _____
West Lafayette Department Head _____ Date _____	West Lafayette College/School Dean _____ Date _____

*Jandra Schaffner* 9/23/11  
 West Lafayette Registrar \_\_\_\_\_ Date \_\_\_\_\_

OFFICE OF THE REGISTRAR

UP  
9/22/11



TO: The Faculty of the College of Engineering  
FROM: The Division of Environmental and Ecological Engineering  
SUBJECT: New Undergraduate Course, EEE 39000, EEE Professional Practice Seminar

The Curriculum Committee of the Division of Environmental and Ecological Engineering has approved the following new course. This action is now submitted to the Engineering Faculty with a recommendation for approval.

**EEE 39000: EEE Professional Preparation Seminar**

*Sem. 2, Class 1, Credits 1*

Restrictions: Open only to students in BSEEE degree program, or with consent of instructor.

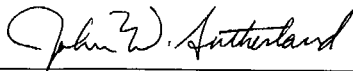
**Course description:**

Seminar lectures and discussions to introduce students to aspects of professional practice within Environmental and Ecological Engineering. Topics include career planning and placement skills, professional responsibility and ethics, functioning as a professional, and other current important topics in the profession. Students will interact with several practicing Environmental and Ecological Engineers.

**Reasons:**

This one-credit seminar course is planned as a core course in the proposed Environmental and Ecological Engineering undergraduate curriculum; most students will take this course in the spring semester of their third year, after they have developed an introductory knowledge of the field and its issues, but before the major design experience and during students' preparation for their next professional steps. The course will be required for the BSEEE degree.

The primary focus of this course is professional preparation: exposure of students to professional opportunities, discussion of personal professional planning, and introduction to current issues of professional practice, including ethical, societal, and global responsibilities of members of the profession.



John W. Sutherland, Head  
Division of Environmental and Ecological Engineering

APPROVED FOR THE FACULTY  
OF THE SCHOOLS OF ENGINEERING  
BY THE ENGINEERING  
CURRICULUM COMMITTEE

ECC Minutes #1  
Date 8/31/11  
Chairman ECC R. Cipra



**EEE 39000: EEE Professional Preparation Seminar**

**Level:** Undergraduate

**Course Instructor(s):** John W. Sutherland, with significant number of guest presenters

**Course Outline:**

EEE 39000 will allow students to develop a fuller understanding of professional issues and practices for Environmental and Ecological Engineers. Weekly meetings will be structured around presentations and discussion. Considering the large number of guest presenters planned, the exact schedule for each semester will vary. However, there will be four primary types of course meetings:

*a. Course introduction and conclusion/synthesis:*

Two course sessions (first and last week, respectively)

*b. Core Issues of the EEE Profession:*

Six course sessions, concentrated in the first half of the semester.

These sessions will be led by the primary course instructor, and will cover fundamental issues of entering the profession and acting and communicating within the profession, including:

- Individual career planning
- Opportunities in graduate study
- Interviewing and other communication skills
- Global and societal impacts of engineering and the role of engineers
- Functioning as a professional (two sessions), including topics such as professional responsibility, professional societies, professional ethics, benefits and compensation, advancement after the initial hire, etc.

*c. Opportunities in Environmental and Ecological Engineering:*

Four or five course sessions, spread throughout the semester, as determined by schedules of guest speakers.

These sessions will feature external guest speakers from the profession, providing personal stories and advice, and providing students with examples of the range of opportunities available and with a chance to begin professional networking. Question and answer will be encouraged. The course instructor will seek to invite guests who exhibit diversity across several scales: a variety of sub-fields of EEE, a variety of career stages, and gender and ethnic diversity.

*d. Additional Current Issues of the EEE Profession:*

Three or four course sessions, concentrated in the second half of the semester, likely led by other Purdue faculty and staff as guest presenters.



This is an opportunity to cover other professional issues that are not deemed critical to be discussed with every class of students, allowing flexibility to address timely or current event issues, and also to bring in experts from campus, subject to their availability. The exact list of issues will change every semester, but may include topics such as:

- contracts and patents, intellectual property in EEE
- cultural sensitivity and working across cultures
- globalization and its impacts on EEE
- trends in EEE or in engineering employment
- roles within industry teams
- transdisciplinarity: working across disciplines or reframing your core personal disciplinary expertise (e.g., life-long learning)

**Textbooks and readings:**

There is no textbook for this course. Students will be provided with papers to read for some sessions.

**Grading:**

20% Attendance and professional behavior in class.

80% Writing assignments, approximately 6-8 through the semester, including drafts of personal documents (sample cover letters, CVs), sets of prepared questions for some guest speakers, and reflection essays on professional responsibilities and opportunities.

**Previous Teaching:**

This course has not been offered previously. EEE intends to offer the course for the first time in Spring 2012.

