REQUEST FOR ADDITION, EXPIRATION, OR REVISION OF AN UNDERGRADUATE COURSE (10000-40000 LEVEL)

DEPARTMENT: Environmental and Ecological Engineering
EFFECTIVE SESSION: Spring 2012

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

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

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

EXISTING:
Subject Abbreviation
Course Number

TERMS OFFERED:
Check All That Apply:
☐ Fall
☐ Spring
☐ Summer

CAMPUS(ES) INVOLVED:
Calumet
Cont Ed
Fl. Wayne
Indiana
N. Central
Tech Statewide
W. Lafayette

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

CREDIT TYPE
1. Fixed Credit: Cr. Hrs.
2. Variable Credit Range: Minimum Cr. Hrs. (Check One) To Cr. Hrs. Yes No

COURSE ATTRIBUTES: Check All That Apply
6. Registration Approval Type
   ☐ Department
   ☐ Instructor
7. Variable Title
8. Honors
9. Full Time Privilege
10. Off Campus Experience

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 BSEE 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 to 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 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

Vice Chancellor for Academic Affairs
Date

West Lafayette Department Head
Date
West Lafayette College/School Dean
Date

OFFICE OF THE REGISTRAR

[Signature]

[Signature]
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.

\[\text{John W. Sutherland, Head}\]
Division of Environmental and Ecological Engineering

\[\text{Approved for the Faculty of the Schools of Engineering by the Engineering Curriculum Committee}\]
\[\text{ECC Minutes #1}\]
\[\text{Date 8/31/11}\]
\[\text{Chairman ECC R. Cipra}\]
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.