

TO: The Faculty of the College of Engineering
FROM: The Division of Environmental and Ecological Engineering
SUBJECT: New Graduate Course, EEE 69000, EEE Graduate Seminar

The Faculty 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 69000: EEE Graduate Seminar

Sem. 1, 2, Lecture 1, Credits 0

Restrictions: Open only to graduate students in EEE or with consent of instructor.

Course description:

Combination of invited speakers (outside and inside Purdue) including graduate students. Topics will range across environmental and ecological engineering with an emphasis on current topics.


Reasons:

This course is necessary for graduate students to learn about current topics in environmental and ecological engineering and to also have opportunities to present talks on their research area.



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 #8 Date 12/13/16
Chairman ECC 

PURDUE UNIVERSITY
REQUEST FOR ADDITION, EXPIRATION,
OR REVISION OF A GRADUATE COURSE
(50000-60000 LEVEL)

PRINT

DEPARTMENT Environmental and Ecological Engineering EFFECTIVE SESSION Fall 2017

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

<input checked="" type="checkbox"/> 1. New course with supporting documents (complete proposal form)	<input type="checkbox"/> 7. Change in course attributes
<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
<input type="checkbox"/> 6. Change in course credit/type	<input type="checkbox"/> 12. Transfer from one department to another

PROPOSED:	EXISTING:	TERMS OFFERED Check All That Apply:
Subject Abbreviation <u>EEE</u>	Subject Abbreviation _____	<input checked="" type="checkbox"/> Fall <input checked="" type="checkbox"/> Spring <input type="checkbox"/> Summer
Course Number <u>69000</u>	Course Number _____	CAMPUS(ES) INVOLVED
Long Title <u>Environmental and Ecological Engineering Graduate Seminar</u>		<input type="checkbox"/> Calumet <input type="checkbox"/> N. Central
Short Title <u>EEE Graduate Seminar</u>		<input type="checkbox"/> Cont Ed <input type="checkbox"/> Tech Statewide
Abbreviated title will be entered by the Office of the Registrar if omitted. (30 CHARACTERS ONLY)		<input type="checkbox"/> Ft. Wayne <input checked="" type="checkbox"/> W. Lafayette
		<input type="checkbox"/> Indianapolis

CREDIT TYPE	COURSE ATTRIBUTES: Check All That Apply
1. Fixed Credit: Cr. Hrs. <u>0</u>	1. Pass/Not Pass Only <input type="checkbox"/>
2. Variable Credit Range:	2. Satisfactory/Unsatisfactory Only <input checked="" type="checkbox"/>
Minimum Cr. Hrs. _____	3. Repeatable <input checked="" type="checkbox"/>
(Check One) To <input type="checkbox"/> Or <input type="checkbox"/>	Maximum Repeatable Credit: _____
Maximum Cr. Hrs. _____	4. Credit by Examination <input type="checkbox"/>
3. Equivalent Credit: Yes <input type="checkbox"/> No <input type="checkbox"/>	5. Fees <input type="checkbox"/> Coop <input type="checkbox"/> Lab <input type="checkbox"/> Rate Request <input type="checkbox"/>
4. Thesis Credit: Yes <input type="checkbox"/> No <input type="checkbox"/>	6. Registration Approval Type
	Department <input type="checkbox"/> Instructor <input type="checkbox"/>
	7. Variable Title <input type="checkbox"/>
	8. Honors <input type="checkbox"/>
	9. Full Time Privilege <input type="checkbox"/>
	10. Off Campus Experience <input type="checkbox"/>
	Include comment to explain fee _____

Schedule Type	Minutes Per Mtg	Meetings Per Week	Weeks Offered	% of Credit Allocated	Cross-Listed Courses
Lecture	50			100	
Recitation					
Presentation					
Laboratory					
Lab Prep					
Studio					
Distance					
Clinic					
Experiential					
Research					
Ind. Study					
Prac/Observ					

COURSE DESCRIPTION (INCLUDE REQUISITES/RESTRICTIONS): (Note: If description will not fit in space provided, please create a separate document and attach to this form.)
Exploration of current topics in Env & Ecol Eng with external and internal speakers.

*COURSE LEARNING OUTCOMES: (Note: If course learning outcomes will not fit in space provided, please create a separate document and attach it to this form.)
More in depth knowledge of current topics in Env & Ecol Eng.

Calumet Department Head _____ Date _____	Calumet School Dean _____ Date _____	Calumet Director of Graduate Studies _____ Date _____
Fort Wayne Department Head _____ Date _____	Fort Wayne School Dean _____ Date _____	Fort Wayne Director of Graduate Studies _____ Date _____
Indianapolis Department Head _____ Date _____	Indianapolis School Dean _____ Date _____	IUPUI Associate Dean for Graduate Education _____ Date _____
North Central Department Head _____ Date _____	North Central School Dean _____ Date _____	North Central Director of Graduate Studies _____ Date _____
West Lafayette Department Head <u>John W. Sutherland</u> <u>11/3/16</u>	West Lafayette College/School Dean _____ Date _____	Date Approved by Graduate Council _____ Date _____
Graduate Area Committee Convener _____ Date _____	Graduate Dean _____ Date _____	Graduate Council Secretary _____ Date _____
		West Lafayette Registrar _____ Date _____

Detailed Graduate Course Proposal for Academic Review

Note: The detailed course proposal is intended for academic review by the appropriate area committee of the Graduate Council. It supplements the Form 40G that is intended for administrative review of the Graduate School and Registrar.

To: Purdue University Graduate Council

From: Faculty Member: John W. Sutherland
Department: Environmental and Ecological Engineering
Campus: West Lafayette

Date: November 4, 2016

Subject: Proposal for New Graduate Course

**Contact for information
if questions arise:** Name: Nina Robinson
Phone: 67578
Email: nlrobins@purdue.edu
Address: POTR 364E

Course Number: EEE 69000
Course Title: Environmental and Ecological Engineering Graduate Seminar
Short Title: EEE Graduate Seminar

Course Description:

Combination of invited speakers (outside and inside Purdue) including graduate students. Topics will range across environmental and ecological engineering with an emphasis on current topics.

A. Justification for the Course

Justification of the need for the course

- This course is necessary for graduate students to learn about current topics in environmental and ecological engineering and to have an opportunity for them to make presentations on their own graduate research.

Justification that course will be taught at a graduate level

- This course is intended for graduate students to learn about current research in the field of Environmental and Ecological Engineering. There will be presentations by external speakers, by faculty at Purdue, and by graduate students within the Environmental and Ecological Engineering program.

Justification of the demand for the course

- Anticipated enrollment
 - Undergraduate 0
 - Graduate 20 to 30 each semester

Justification for online delivery

This will not be an online course.

B. Learning Outcomes and Methods of Assessment

1. Increased understanding of academic and research topics in Environmental and Ecological Engineering (EEE).
2. Improve ability of EEE graduate students to think critically about research and presentation skills of others.
3. Increase student's ability to critique his or her own work.

Learning Outcomes	Assessment Methods
Increased understanding of academic and research topics in Env and Ecol Eng	<ul style="list-style-type: none"> • Attendance
Improve ability of EEE graduate students to think critically about research and presentation skills of others.	<ul style="list-style-type: none"> • Attendance
Increase student's ability to critique his or her own work.	<ul style="list-style-type: none"> • Attendance

Final Grading Criteria

Describing the criteria that will be used to assess students and how the final grade will be determined. Add and delete rows as needed.

Assessment Methods (should match method types in the previous table)	Weight Toward Final Course Grade
Class Participation	100%

Methods of Instruction

Class Hrs/Week	Method of Instruction	Contribution to Outcomes
1	Seminar	This is a seminar series and all outcomes will come from attendance.

C. Prerequisite(s)

- Graduate student standing

D. Course Instructor(s)

Name	Rank	School, dept., or center	Graduate Faculty or expected date
Ernest (Chip) Blatchley	Professor	CE/EEE	Yes
Hua Cai	Assistant Professor	EEE/IE	Yes
Abigail Engelberth	Assistant Professor	ABE/EEE	Yes
Brady Hardiman	Assistant Professor	EEE/FNR	Yes
John Howarter	Assistant Professor	EEE/MSE	Yes
Inez Hua	Professor	CE/EEE	Yes
Chad Jafvert	Professor	CE/EEE	Yes
Michael Mashtare	Assistant Professor	AGRY/EEE	Yes
Roshanak Nateghi	Assistant Professor	EEE/IE	Yes
Loring (Larry) Nies	Assistant Professor	CE/EEE	Yes
Lindsey Payne	Courtesy Appointment	CIE/EEE	Yes
Amisha Shah	Assistant Professor	CE/EEE	Yes
Shweta Singh	Assistant Professor	ABE/EEE	Yes
John Sutherland	Professor	EEE/ME	Yes
Andrew Whelton	Assistant Professor	CE/EEE	Yes
Fu Zhao	Associate Professor	EEE/ME	Yes
Zhi (George) Zhou	Assistant Professor	CE/EEE	Yes

E. Course Schedule or Outline

Option 1: Schedule Format

Week	Topic(s)	Activity (optional)
1	• Introduction and Expectations	• [Activity]
2	• External Speaker 1	• [Activity]
3	• Purdue Speaker 1	• [Activity]
4	• Purdue Speaker 2	• [Activity]
5	• Purdue Speaker 3	• [Activity]
6	• External Speaker 2	• [Activity]
7	• Purdue Speaker 4	• [Activity]
8	• Purdue Speaker 5	• [Activity]
9	• Purdue Speaker 6	• [Activity]
10	• External Speaker 3	• [Activity]
11	• Purdue Speaker 7	• [Activity]
12	• Purdue Speaker 8	• [Activity]
13	• Purdue Speaker 9	• [Activity]
14	• External Speaker 4	• [Activity]
15	• Wrap up and feedback	• [Activity]
16	Not applicable	

F. Reading List (including course text)

Primary Reading List

- There will be no reading assignments since this is a seminar course.

Secondary Reading List

- See above

G. Library Resources

There will be no library resources needed for this class.

H. Course Syllabus (now required)

- Please see the above course schedule for a proposed syllabus.