Office of the Registrar
FORM 40G REV. 07/13

PURDUE UNIVERSITY

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

Print Form

EEE 59500

DEPARTMENT Environmental and Ecological Engineering

EFFECTIVE SESSION Fall 2015 201610

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

- [X] 1. New course with supporting documents (complete proposal form)
- [ ] 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
- [ ] 8. Change in instructional hours
- [ ] 9. Change in course description
- [ ] 10. Change in course requisites
- [ ] 11. Change in semesters offered
- [ ] 12. Transfer from one department to another

PROPOSED:		EXISTING:	
Subject Abbreviation	EEE	Subject Abbreviation	
Course Number	59500	Course Number	
Long Title	Environmental and Ecological Engineering Projects		
Short Title	Environ Ecol Engr Proj		

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

TERMS OFFERED
Check All That Apply:
[X] Fall [X] Spring [X] Summer

CAMPUS(ES) INVOLVED
[ ] Calumet [ ] N. Central
[ ] Cont Ed [ ] Tech Statewide
[ ] Ft. Wayne [X] W. Lafayette
[ ] Indianapolis

CREDIT TYPE
1. Fixed Credit: Cr. Hrs.
2. Variable Credit Range: Minimum Cr. Hrs 0
(Check One) To [X] Or [ ]
Maximum Cr. Hrs. 6
3. Equivalent Credit: Yes [ ] No [ ]
4. Thesis Credit: Yes [ ] No [ ]

COURSE ATTRIBUTES: Check All That Apply
1. Pass/Not Pass Only
2. Satisfactory/Unsatisfactory Only
3. Repeatable [X]
Maximum Repeatable Credit:
4. Credit by Examination
5. Fees: [ ] Coop [ ] Lab [ ] Rate Request
Include comment to explain fee
6. Registration Approval Type
Department [ ] Instructor [X]
7. Variable Title [X]
8. Honors
9. Full Time Privilege
10. Off Campus Experience

Schedule Type	Minutes Per Mtg	Meetings Per Week	Weeks Offered	% of Credit Allocated
Lecture	def 150	2	5	100
Recitation				
Presentation				
Laboratory				
Lab Prep				
Studio				
Distance				
Clinic				
Experiential				
Research	X			
Ind. Study				
Pract/Observ				

example 2 course configs
1. 1 or Lec
2. 0-6 or IND can this

Cross-Listed Courses

RECEIVED
SEP 0 1 2015
OFFICE OF THE REGISTRAR

COURSE DESCRIPTION (INCLUDE REQUISITES/RESTRICTIONS):
Topics vary. Arrange hours and credit. Permission of instructor required.

*COURSE LEARNING OUTCOMES
Learning outcomes will be designed by the instructor to meet a level of academic rigor consistent with the course level given the specific course content.

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 John W. Sutherland	1/20/15	West Lafayette College/School Dean Mitchell E. Thomas	1/20/15	Date Approved by Graduate Council Tina A. Payne	9/1/15
Graduate Area Committee Convener	Date	Graduate Dean Philip C. Pope	9/1/15	Graduate Council Secretary	Date
				West Lafayette Registrar Sue Galloway	9/9/15

OFFICE OF THE REGISTRAR

lyz 9/02/15

Supporting Document
to accompany the Registrar's FORM 40G when:

1. Requesting a New Graduate Course (Complete Section I)

or

2. Adding Distance as an Additional Schedule Type (Complete Section II)

To: Purdue University Graduate Council

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

Date: Jan. 8, 2015

Subject: Supporting Document to the Registrar's Form 40G

For Reviewer's comments only (Select One)
Reviewer:
Comments:

Contact for information if questions arise:

Name: Nina L. Robinson

Phone Number: 67578

E-mail: nlrobins@purdue.edu

Campus Address: POTR

Course Subject Abbreviation and Number: EEE 59500

Course Title: Environmental and Ecological Engineering Projects

SECTION I

A. Justification for the Course:

- Provide a complete and detailed explanation of the need for the course (e. g., in the preparation of students, in providing new knowledge/training in one or more topics, in meeting degree requirements, etc.), how the course contributes to existing majors and/or concentrations, and how the course relates to other graduate courses offered by the department, other departments, or interdisciplinary programs.

There is a need to have a temporary course number that will allow the faculty in Environmental and Ecological Engineering (EEE) to develop new courses, assess their effectiveness and finalize their structure prior to obtaining a permanent course number. By having this be a 50000 level course both graduates and undergraduates students will be able to take this course.

- Justify the level of the proposed graduate course (50000- or 60000-level) including statements on, but not limited to: (1) the target audience, including the anticipated number of undergraduate and graduate students who will enroll in the course; and (2) the rigor of the course.

The target audience will be graduate students in engineering and senior undergraduates. We anticipate that the enrollment will vary from 10-20 depending on the subject matter. Depending on the subject matter the course may be delivered by lecture or laboratory or a combination. The courses will be taught at the graduate level so it is appropriate that it is a 50000 level course.

B. Learning Outcomes and Method of Evaluation or Assessment:

- Describe the course objectives and student learning outcomes that address the objectives (i.e., knowledge, communication, critical thinking, ethical research, etc.).

Students will gain knowledge of topics in environmental engineering.
Students will learn critical thinking through analysis of the primary literature (such as journal articles).
Students will be aware of ethical issues that touch upon topics in environmental engineering.

- Describe the methods of evaluation or assessment of student learning outcomes. (Include evidence for both direct and indirect methods.)

This will depend on the instructor. We anticipate that it will be a combination of tests, essays, and in class presentations.

- Grading criteria (select from drop down boxes); include a statement describing the criteria that will be used to assess students and how the final grade will be determined.

Criteria	Exams and Quizzes	Criteria	Papers and Projects	Criteria	Laboratory Exercises
Criteria	Attendance and Class Participat	Criteria		Criteria	

- Identify the method(s) of instruction (select from drop down box) and describe how the methods promote the likely success of the desired student learning outcomes.

Method of Instruction	Lecture	Method of Instruction	Laboratory	Method of Instruction	Presentation
Method of Instruction		Method of Instruction		Method of Instruction	
Method of Instruction		Method of Instruction		Method of Instruction	

C. Prerequisite(s):

- List prerequisite courses by subject abbreviation, number, and title.

None

- List other prerequisites and/or experiences/background required. If no prerequisites are indicated, provide an explanation for their absence.

Must be a graduate student or advanced undergraduate. Permission of instructor will be required.

D. Course Instructor(s):

- Provide the name, rank, and department/program affiliation of the instructor(s).

Variable - it will always by a member of the Graduate Faculty

- Is the instructor currently a member of the Graduate Faculty? X Yes ___ No
  (If the answer is no, indicate when it is expected that a request will be submitted.)

E. Course Outline:

- Provide an outline of topics to be covered and indicate the relative amount of time or emphasis devoted to each topic. If laboratory or field experiences are used to supplement a lecture course, explain the value of the experience(s) to enhance the quality of the course and student learning. For special topics courses, include a sample outline of a course that would be offered under the proposed course.

The course outline will vary by instructor and topic.

F. Reading List (including course text):

- A primary reading list or bibliography should be limited to material the students will be required to read in order to successfully complete the course. It should not be a compilation of general reference material.

The reading list, if required, will vary by instructor and topic.

G. Library Resources

- Describe the library resources that are currently available or the resources needed to support this proposed course.

The engineering library is located in POTR which all students have access to when the library is open.

H. Example of a Course Syllabus (While not a necessary component of this supporting document, an example of a course syllabus is available, for information, by clicking on the link below, which goes to the *Graduate School's Policies and Procedures Manual for Administering Graduate Student Programs*. See Appendix K.)

http://www.gradschool.purdue.edu/downloads/Graduate_School_Policies_and_Procedures_Manual.pdf

Engineering Faculty Document No. 10-09
September 26, 2008

To: The Faculty of the College of Engineering
From: Division of Environmental and Ecological Engineering (DEEE)
Subject: New Course EEE 59500

The faculty of the Division of Environmental and Ecological Engineering have approved the following new course to offer independent study projects and/or temporary courses to graduate students. This action is now submitted to the Engineering Faculty with a recommendation for approval.

EEE 59500 Environmental and Ecological Engineering Projects
Sem. 1, 2. SS. Cr. 0-6.

Course description: Topics vary. Arrange Hours and Credit. Permission of instructor required.

Reasons: The Division of Environmental and Ecological Engineering will be offering projects and courses to Purdue graduate students. The goal is to provide graduate students the opportunity to explore environmental and ecological engineering topics.

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

ECC Minutes #12

Date 12-3-08

Chairman ECC R. Cipra

Inez Hua
Interim Head
Division of Environmental and Ecological Engineering (DEEE)