Office of the Registrar FORM 40G REV. 7/08

PURDUE UNIVERSITY

REQUEST FOR ADDITION, EXPIRATION,

Fruaro

OR REVISION OF A GRADUATE COURSE Graduate Council Doc. No. 08-46c (50000-60000 LEVEL)

Supporting Document Received 5/19/10

DEPARTMENT Engineering Education		200919 Spring 2011
INSTRUCTIONS: Please check the items below which describe the purpose of the	nis request.	
1. New course with supporting documents (complete pro	posal form)	7. Change in course attributes
 2. Add existing course offered at another campus 		8. Change in instructional hours
3. Expiration of a course		9. Change in course description
4. Change in course number		10. Change in course requisites
5. Change in course title		11. Change in semesters offered
6. Change in course credit/type		12. Transfer from one department to another
PROPOSED: EXISTING:		TERMS OFFERED
Subject Abbreviation ENE Subject Abbreviation		Check All That Apply:
		Summer Fall Spring
Course Number 690 00 Course Number		CAMPUS(ES) INVOLVED
Long Title Seminar in Engineering Education		Calumet N. Central
Long Title J Seminar in Engineering Education		Cont Ed
Short Title Sem ENED In Engineering Education		Ft. Wayne W. Lafayette
Abbrevialed tille will be entered by the Office of the Registrar if omitted. (30 CHARACT	ERS ONLY)	
CREDIT TYPE	COURSE ATTRI	BUTES: Check All That Apply
1. Fixed Credit: Cr. Hrs. 0 1. Pass/Not Pass Only		egistration Approval Type
Variable Credit Range: 2. Satisfactory/Unsatisfactory	· - f	Department Instructor
Minimum Cr. Hrs 3. Repeatable	FF	ariable Title
(Check One) To Or Maximum Repeatable		onors
Maximum Cr. Hrs 4. Credit by Examination	9. F	uli Time Privilege
3. Equivalent Credit: Yes No X	10.0	ff Campus Experience
4. Thesis Credit: Yes No 🔣		
Schedule Type Minutes Meetings Per Weeks % of Credit Per Mtg Week Offered Allocated		
Per Mtg Week Offered Allocated Lecture 5U 1		*Cross-Listed Courses
Recitation		
Presentation Laboratory		
'ab Prep		•
dudio Distance		
Clinic		
Experiential		
Research Ind. Study		
Pract/Observ		
COURSE DESCRIPTION (INCLUDE REQUISITES/RESTRICTIONS):		
Seminar course covering a broad range of current discovery, lear	ning, and engagement	topics in Engineering Education. Seminar
presentations by representatives from academia, industry, other e	external institutions, and	members of the Purdue University community. This is
a required course for the graduate program in the Department of		
Prerequisite: Engineering Education stu	dent.	
Date Calumet School Dean	Date,	Calumet Undergrad Curricuim Committee Date
		Date Date
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Fort Wayne Department Head Date Fort Wayne School Dean	Date	, Fort Wayne Chancellor Date
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		RAP 10/15/10
Indianapolis Department Head Date Indianapolis School Dean	Date	Indicated Control of Committee
	Date	Undergrad Curriculm Committee Date
		ADDDOVED 10/01/10
North Central Department Head, Date North Central Chancellor	D-1-	APPROVED 10/21/10
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Graduate Dean Date Graduate Dean	Date	West Lafayette Registrar
OFFICE	OF THE DECISEO	
	OF THE REGISTRAR	•
(Grad Form 40G [Excel format] - Does not include the Graduate C	Council's required suppo	orting document. See pdf version of Form 40G)

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PURDUE UNIVERSITY REQUEST FOR ADDITION, EXPIRATION, OR REVISION OF A GRADUATE COURSE

(50000-60000 LEVEL)

Instruction Name	DEPARTMENT Engineering E	ducation		EFFECTIVE :	SESSION 20	00910			
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Grad Form 40G [Excel format] - Does not include the Graduate Council's required supporting document. See pdf version of Form 40C)		*	OFFICE	OF THE REC	SISTRAR				
	Grad Form 40G [Excel format]	- Does not	include the Graduate C	council's requi	red supporti	ng doc	ument. See od	f version of Form 40G)	

 To:

The Faculty of the College of Engineering

From:

Department of Engineering Education

Subject:

New Graduate Course, ENE 690

The faculty of the Department of Engineering Education has approved the following new graduate ENE course. This action is now submitted to the Engineering Faculty with a recommendation for approval.

ENE 690 Seminar in Engineering Education

Sem. 1 and 2, Class 1, Cr. 0.

Prerequisite: Open to students in Engineering Education or by consent of instructor.

Course description: Seminar course covering a broad range of current discovery, learning, and engagement topics in Engineering Education. Seminar presentations by representatives from academia, industry, other external institutions, and members of the Purdue University community.

Reasons: This is a required course for the graduate programs in the Department of Engineering Education (ENE). This new course will also be of interest to graduate students in other Departments, Schools, and Colleges with engineering education or related interests. The intent of the course is to raise awareness of the opportunities and cutting edge research and programs in engineering education and provide networking opportunities for ENE graduate students within ENE and at national and international levels.

Kamyar Hagnighi, Head Engineering Education

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

ECC Minutes

Date 5/9/08

Chairman ECC

Supporting Document for a New Graduate Course

То:	Purdue Universit	y Graduate (Council		(Select One)		
From:	Faculty Member: Rotating Faculty in ENE						
	Department:	Engineering	Education		Reviewer:		
	Campus:	West Lafaye	tte		Reviewer.		
Date:							
Subject:	Proposal for New Graduate Course-Documentation Required by the Graduate Council to Accompany Registrar's Form 40G				Comments:		
	Contact for information if		Name:	Cinde	ey Hays (temporary)		
	questions arise:		Phone Number:	494-3884			
			E-mail:	isenberg@purdue.edu			
			Campus Address:	ARM!	S 1321		
	Course Subject At	obreviation an	d Number: ENE 696	000			
	Course Title: Rese	earch Seminar	in Engineering Educ	ation			

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 fields of study
 and/or areas of specialization, and how the course relates to other graduate courses offered
 by the department, other departments, or interdisciplinary programs.
- 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.

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.).
- Describe the methods of evaluation or assessment of student learning outcomes. (Include evidence for both direct and indirect methods.)
- Grading criteria (select from dropdown box); include a statement describing the criteria that will be used to assess students and how the final grade will be determined.

<u>Criteria</u>	Attendance and Class Participation

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

Method of Instruction	Presentation
	•

C. Prerequisite(s):

- List prerequisite courses by subject abbreviation, number, and title.
- List other prerequisites and/or experiences/background required. If no prerequisites are indicated, provide an explanation for their absence.

D. Course Instructor(s):

- Provide the name, rank, and department/program affiliation of the instructor(s).
- Is the instructor currently a member of the Graduate Faculty? \times 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.

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.
- A secondary reading list or bibliography should include material students may use as background information.

G. Library Resources

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

Justification for the Course:

This is a required course for the graduate programs in the School of Engineering Education (ENE). This new course will also be of interest to graduate students in other Departments, Schools, and Colleges with engineering education or related interests. The intent of the course is to raise awareness of the opportunities and cutting edge research and programs in engineering education and provide networking opportunities for ENE graduate students within ENE and at national and international levels.

Learning Outcomes and Method of Evaluation or Assessment:

1. Introduction and discussion of the semester schedule.

3. Matthew Romoser, University of Massachusetts-Amherst

2. Gregory Light, Northwestern University

4. Krishna Madhavan, Clemson University

- 1. Develop an understanding of the field of Engineering Education in its widest possible applications.
- 2. Develop an appreciation of the various interdisciplinary research efforts being pursued Engineering Education has the potential to provide leadership/

Criteria: (pick one)
Exams and Quizzes Papers and Projects Homework Laboratory Exercises X_Attendance and Class Participation Extra Credit Policies
Method of Instruction: (pick one)
LectureRecitationX_PresentationLaboratoryLab PrepStudioDistance
Prerequisite(s):
Graduate standing, MS or PHD student in Engineering Education
Course Instructor(s):
This changes from semester to semester. Faculty within the School of Engineering Education who are a member of the Graduate Faculty
Course Outline:
Week Typical Schedule:

- 5. Nadia Kellam, University of Georgia
- 6. Victor Goldschmidt, past head of Purdue, Dept of Freshman Engineering
- 7. Yvonna Lincoln, Texas A&M University
- 8. Guest Presenter TBD
- 9. Guest Presenter TBD
- 10. Spring break NO SEMINAR
- 11. Trevor Harding, CalPoly, San Luis Obispo
- 12. Guest Presenter TBD
- 13. Guest Presenter TBD
- 14. Cindy Atman, University of Washington
- 15. ENE 590 Presentations

Reading List (including course text):

None required

Library resources:

None required

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Supporting Document for a New Graduate Course

To:	Purdue University Graduate Council			(Select One)		
From:	Faculty Member; Department; Campus:	Engineering Education			Reviewer:	
Date: Subject:		Purdue University West Lafayette			-	
	Proposal for New Graduate Course-Documentation Required by the Graduate Council to Accompany Registrar's Form 40G				Comments:	
	Contact for information if questions arise:		Name: Phone Number: E-mail:	4575		
			Campus Address:		@purdue.edu ARMS	
	Course Subject Al	breviation an				
	Course Title: History and Philosophy of Engineering Educa				ition -	

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 fields of study
 and/or areas of specialization, and how the course relates to other graduate courses offered
 by the department, other departments, or interdisciplinary programs.
- 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.

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.).
- Describe the methods of evaluation or assessment of student learning outcomes. (Include evidence for both direct and indirect methods.)
- Grading criteria (select from dropdown box); include a statement describing the criteria that will be used to assess students and how the final grade will be determined.

<u>Criteria</u>	Attendance and Class Participation	

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•	Identify the method(s) of instruction (select from dropdown box) and describe how the		
methods promote the likely success of the desired student learning outcome			

Method of Instruction	Presentation
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C. Prerequisite(s):

- List prerequisite courses by subject abbreviation, number, and title.
- List other prerequisites and/or experiences/background required. If no prerequisites are indicated, provide an explanation for their absence.

D. Course Instructor(s):

- Provide the name, rank, and department/program affiliation of the instructor(s).
- Is the instructor currently a member of the Graduate Faculty? ___ 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
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and student learning. For special topics courses, include a sample outline of a course that
would be offered under the proposed course.

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.
- A secondary reading list or bibliography should include material students may use as background information.

G. Library Resources

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

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