TO:

The Faculty of the College of Engineering

FROM:

School of Electrical and Computer Engineering of the College of Engineering

RE:

New Graduate Course, ECE 69200 Introduction to Graduate Research

The faculty of the School of Electrical and Computer Engineering has approved the following new course. This action is now submitted to the Engineering Faculty with a recommendation for approval.

ECE 69200 Introduction to Graduate Research

Sem. 1,2, and 3 Research, Cr. 1-3.

Prerequisite by Topic: Graduate Standing

Description: Research-related activities supervised by an ECE faculty member to introduce newly admitted ECE graduate students to the methods and culture of doing research. Possible activities might include, but are not limited to, participation in group research meetings, association with an advanced graduate student, and individualized reading or project work. A description of the activity, approved by the faculty supervisor, must be filed with the ECE Graduate Office.

Reason: This course is intended strictly for newly admitted graduate students. Its purpose is to provide these students with an early opportunity to learn about methods and culture of research.

Michael R. Melloch, Associate Head

School of Electrical and Computer Engineering

Approved for the faculty of the Schools of Engineering by the Engineering Curriculum Committee

ECC Minutes_

Chairman ECC

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

	rical and Computer Eng		_ EFFECTIVE SESSION	Sprin	ng 20)16				
INSTRUCTIONS: Please	check the items below which	n describe the purpose of t	his request.							
1. New course with supporting documents (complete proposal form) 7. Change in course attributes										
2. Add existing course offered at another campus					8.	Change in instru	ctional 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						Change in seme	sters offered			
6. Cha	nge in course credit/type				12.	Transfer from on	ne department to another			
PROPOSED:		EXISTING:				Ti	ERMS OFFERED	T		
Subject Abbreviation ECE	<u></u>	Subject Abbreviation			1		heck All That Apply:			
	_	_ Gabjest/ ibbieviation			-	✓ Fall	Spring Summer			
Course Number	69200	Course Number			1 h		PUS(ES) INVOLVED	-		
CAMPOS(ES) INVOLVED										
Long Title Introduction to Graduate Research Cont Ed Tech Statewide Ft. Wayne V. Lafayette										
Short Title Introduction to Graduate Research Indianapolis										
Abbreviated titl	le will be entered by the Office of the	Registrar if omitted. (30 CHARACT	TERS ONLY)					_		
CREDIT TYPE COURSE ATTRIBUTES: Check All That Apply										
Fixed Credit: Cr. Hrs.		1. Pass/Not Pass Only				pproval Type				
Variable Credit Range:		2. Satisfactory/Unsatisfactory		rtogiou		· -	nstructor 🗸			
Minimum Cr. Hrs	1	3. Repeatable		Variable		arthoric []				
	✓ Or □	Maximum Repeatable		Honors	11.00		i i			
	3	4. Credit by Examination		Full Time	o Privile	200	i i i			
Equivalent Credit: Yes		5. Fees Coop Lab		Off Cam		-	H			
4. Thesis Credit: Yes		Include comment to explain for		Oil Calli	pus Ex	perience	ш			
Schedule Type	Minutes Meetings Per	Weeks % of Credit								
ochedule Type	Per Mtg Week	Offered Allocated					Cross-Listed Courses	٦		
Lecture										
Recitation										
Presentation Laboratory								-		
Lab Prep										
Studio										
Distance Clinic										
Experiential										
Research		100%						-		
Ind. Study										
Pract/Observ										
COURSE DESCRIPTION (INC	CLUDE REQUISITES/RESTRICT	TIONS):								
Research-related activities supervised by an ECE faculty member to introduce newly admitted ECE graduate students to the methods and culture of doing research. Possible activities might include, but are not limited to, participation in group research meetings, association with an advanced graduate student, and individualized reading or project work. A description of the activity, approved by the faculty										
supervisor, must be filed with					p. 0,000		or are activity, approved by are racting			
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*COURSE LEARNING OUTC	OMES:									
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Calumet Department Head	Date	Calumet School Dean	Date		Calum	et Director of Gradua	te Studies	Date		
Fort Wayne Department Hear	d Date	Fort Mayor Cabasi Daga	D-I-		F	/ Di 10		D-4-		
Fort Wayne Department Head	d Date	Fort Wayne School Dean	Date		Fort W	ayne Director of Grac	duate Studies	Date		
Indianapolis Department Head	d Date	Indianapolis School Dean	Date		IUPUI	Associate Dean for G	raduate Education	Date		
North Central Department He	ead Date	North Central School Dean	Date	-	North (Central Director of Gra	aduate Studies	Date		
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West Lafayette Department H	lead Date	West Lafayette College/School	ol Dean Date	-	Date A	pproved by Graduate	Council	Date		
		,								
Graduate Area Committee Co	onvener Date	Graduate Dean	Date	-	Gradua	ate Council Secretary		Date		
					West L	afayette Registrar		Date		
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Supporting Document to the Form 40G for a New Graduate Course

To:

Purdue University Graduate Council

From:

Faculty Member: ECE Graduate Committee

Department:

Electrical and Computer Engineering

Campus:

West Lafayette

Date:

Subject:

Proposal for New Graduate Course

Contact for information

Name:

Matt Golden

if questions arise:

Phone:

494-3374

Email:

goldenm@purdue.edu

Address: EE Building, Room 135

Course Subject Abbreviation and Number:

ECE 69200

Course Title: Introduction to Graduate Research

Course Description:

Research-related activities supervised by an ECE faculty member to introduce newly admitted ECE graduate students to the methods and culture of doing research. Possible activities might include, but are not limited to, participation in group research meetings, association with an advanced graduate student, and individualized reading or project work. A description of the activity, approved by the faculty supervisor, must be filed with the ECE Graduate Office.

Semesters Offered:

For the benefit of graduate student plan of study development, how frequently will this prototype be offered? Which semesters? Each Semester

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.

Justify the level of the proposed graduate course (500- or 600-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.

• This course is intended strictly for newly admitted graduate students. Its purpose is to provide these students with an early opportunity to learn about methods and culture of research.

Use the following criteria:

Graduate Council policy requires that courses at the 50000 level in the Purdue system should be taught at the graduate level and meet four criteria: a) the use of primary literature in conjunction with advanced secondary sources (i.e., advanced textbooks); b) assessments that demonstrate synthesis of concepts and ideas by students; c) demonstrations that topics are current, and; d) components that emphasize research approaches/methods or discovery efforts in the course content area (reading the research, critiquing articles, proposing research, performing research). Such courses should be taught so that undergraduate students are expected to rise to the level of graduate work and be assessed in the same manner as the graduate students.

• Anticipated enrollment

o Undergraduate

0

o Graduate

50-75

B. Learning Outcomes and Method of Evaluation or Assessment:

ECE Graduate Learning Outcomes:

- a. Knowledge and Scholarship (thesis/non-thesis)
- b. Communication (thesis/non-thesis)
- c. Critical Thinking (thesis/non-thesis)
- d. Ethical and Responsible Research (thesis) or Professional and Ethical Responsibility (non-thesis)
- List Learning Objectives for this course and map each Learning Objective to one or more of the ECE Learning Outcomes (a-d, listed above):

- Methods of Instruction
 - Research
- Will/can this course be offered via Distance Learning?
 - No.
- Grading Criteria

Grading criteria (select from checklist); include a statement describing the criteria that will be used to assess students and how the final grade will be determined. Add and delete rows as needed.

- Research
- ▶ Describe the criteria that will be used to assess students and how the final grade will be determined:

C. Prerequisite(s):

List prerequisites and/or experiences/background required. If no prerequisites are indicated, provide an explanation for their absence. Add bullets as needed.

• Graduate Standing and Consent of Instructor

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? (If the answer is no, indicate when it is expected that a request will be submitted.) Add rows as needed.

Name	Rank	Dept.	Graduate Faculty or expected date
All ECE Faculty	Assistant Professor, Associate Professor, Professor	ECEN	Yes

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 of 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.

(This information must be listed and may be copied from syllabus).

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.

- · Primary Reading List
- · Secondary Reading List

G. Library Resources

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

None.

H. 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 Program*.

See Appendix K.

http://www.purdue.edu/gradschool/faculty/documents/Graduate School Policies a nd Procedures Manual.pdf