

# EEE 201 Research Methodology

## Required Course – MSEE Plans A and B

**2002 – 2004 Catalog Data:** EEE 201. **Research Methodology.** Research methodology, problem formulation and problem solving. Collective and individual study of selected issues and problems relating to fields of study in the Electrical and Electronic Engineering Graduate Program. Orientation to the requirements for Masters Thesis or Project in Electrical Engineering. **Prerequisite: Fully classified graduate standing. Graded Credit/No Credit. 1 unit.**

**Texts:** None. The course will be conducted via e-mail exchange between student and instructor.

### Course Goals:

1. To guide the student in obtaining necessary knowledge about the requirements for the Thesis and Project Culminating Experiences.
2. To guide the student in acquiring an understanding of the faculty resources available for supervision of Projects and Theses.
3. To guide the student in deciding upon the topic for his/her culminating experience.
4. To facilitate the completion of an EEE MS Thesis or Project Topic form by the student.

### Prerequisites:

1. Fully classified graduate standing (or immediate eligibility for classified graduate standing).
2. Student will be eligible for Advancement to Candidacy by the end of the semester.

### Topics Covered/Class Schedule/Evaluation:

#### Topics

1. What is Plagiarism and what are it's professional consequences?
2. What area of EE research or development interests you the most?
3. What are the faculty's experience and particular interests in supervising Projects and Theses?
4. Find out about current work in your EE area of interest -- The literature search.
5. The structure of an abstract and summarizing a technical paper.
6. What is the difference between a Thesis and a Project? For what career goals may one be preferred over the other as a culminating experience?
7. The required format for projects and theses.
8. Abstract and Methodology for the EEE 500 Topic Form.
9. Start work on your EEE 500 Topic Form.
10. What are the eligibility requirements for EEE 500 registration and subsequent continuous registration?
11. What documents must the Graduate Center have in order for you to graduate with the MS EEE degree?
12. Completion of the EEE 500 Topic Form.

#### Course Outline

<i>Week</i>	<i>Topic</i>
1	Course introduction and requirements
2	Plagiarism and its professional consequences
3-4	Considering the area of EE research and development you will choose for your Thesis or Project.
5	Faculty resources in support of projects and theses

6-7	The literature search – available resources
8	Abstract structure and summarizing a technical paper
9	The difference between a Thesis and a Project
10	Required format for projects and theses
11	The EEE 500 Topic Form – abstract and methodology requirements
12-13	Rules and regulations governing EEE 500 and completion of the MS EEE degree
14-16	EEE 500 Topic Form Completion

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### **Evaluation**

#### *In Order to Receive Credit for the Course:*

1. Student must meet with the instructor at the initial class meeting or at least once prior to February 2, 2003.
2. Student must E-mail the instructor, prior to February 2, as to where he/she may be reached by telephone and e-mail during the semester.
3. Student must turn in ALL course assignments.
4. Student must turn in a satisfactorily completed EEE 500 Topic Form by the 16<sup>th</sup> week of the class (Exam Week).

### **Science and Design Content Distribution**

None

### **Contribution of Course to the Professional Education Component:**

1. Assignments include practical information gathering and technical writing experience.
2. The requirements prepare the student for EEE 500 – Culminating Experience registration in the following semester.

### **Relationship of Course to Program Outcomes:**

1. #11 Written Communication: This course requires students to understand the writing requirements for a technical paper, including format, abstract and methodology, and to apply these to development of their EEE 500 Topic Form.
2. #13 Professional Issues: This course provides students with information on university and professional requirements for the MS EEE degree.
3. #15 Lifelong Learning: This course gives students instruction and experience in literature searching for professional writing applications and for expansion of their professional knowledge base.

**Course Coordinator:** John Oldenburg, EEE

**Date:** January 20, 2004

**Office Hours RVR-3018:** M 4-5, WF 3-4

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