

The University of Texas at Tyler  
Department of Electrical Engineering

EENG 5395: Thesis I

Syllabus

Catalog Description:

Selection of a research topic and development of a thesis plan. CR/NC Only.

Prerequisites:

Consent of advisor.

Credits:

3 ( 0 hours lecture, 0 hours laboratory per week )

Text(s):

Literature survey as recommended by the advisor.

Additional Material:

Course Coordinator:

Advisor

Topics Covered: (paragraph of topics separated by semicolons)

An individual project intended to integrate material already covered in previous courses, as well as to provide an in-depth exploration of a topic of special interest or career relevance to the participant. Students work closely with an academic advisor. Topics may include but are not limited to:

- I. Identification of Problem
- II. Survey of Related Literature
- III. Design and Development
- IV. Testing or Validation
- V. Evaluation of Results

Evaluation Methods: (only items in dark print apply):

1. Examinations / Quizzes
2. Homework
3. Report
4. Computer Programming
5. Project
6. Presentation
7. Course Participation
8. Peer Review

Course Objectives<sup>1</sup>: By the end of this course students will be able to:

1. Identify a research problem. [3, 5, 6]
2. Conduct literature survey. [3]
3. Develop a new approach for solving the problem. [3, 5]
4. Perform research. [3, 5, 6]
5. Analyze results. [3, 5, 6]

<sup>1</sup>Numbers in brackets refer to method(s) used to evaluate the course objective.

Relationship to Program Outcomes<sup>2</sup>: This course supports the following Electrical Engineering Program Outcomes, which state that our students will:

1. Graduates of the program will possess a breadth and depth of knowledge in

electrical and computer engineering. [1-5]

2. Graduates of the program will possess and demonstrate oral and written communication skills. [1-5]
3. Graduates of the program will demonstrate the capability to perform independent learning and investigation.[1-5]

<sup>2</sup>Numbers in brackets refer to course objective(s) that address the Program Outcome.

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