

ECE 6910 - INTRODUCTION TO GRADUATE RESEARCH

Catalog Description:

Lec. 1. Cr. 1.

Prerequisite: Graduate student standing.

Research tools and written and oral presentations in electrical and computer engineering area; graduate thesis; ethics in research.

Course Coordinator: Dr. Mohamed Mahmoud

Updated: 1/28/2015

Textbook(s) and Supplemental Material(s):

Required: None

References:

ECE Department website:

<https://www.tntech.edu/engineering/departments/ece/>

College of Graduate Studies Website: <https://www.tntech.edu/graduatestudies/degrees>

University Graduate Catalog Website: <http://catalog.tntech.edu/index.php?catoid=14>

Electronic Thesis/Dissertation Information Website:

<https://www.tntech.edu/graduatestudies/currentstudent/etd>

Course Goal(s):

To familiarize ECE graduate students with the various aspects of graduate study and research.

Instructional Outcomes for the Course:

Upon completion of this course, the student will be able to:

1. Navigate requirements for degree completion.
2. Select appropriate publication venue.
3. Conduct a literature review.
4. Understand the characteristics of a good technical paper.
5. Write an abstract for a technical publication.
6. Make a technical presentation.
7. Understand ethics in research and publishing.

Course Topics:

1. Graduate degree requirements
2. Steps in research process
3. Library usage and literature search
4. Characteristics of good technical papers
5. Review of journal articles
6. Identification of research problems

7. Ethical issues in research and thesis writing
8. Technical presentation
9. Active listening of technical presentations