

ENGINEERING (M.S.) TELECOMMUNICATIONS ENGINEERING EMPHASIS

Mission

To provide quality education to prepare students to play a significant role in shaping the future telecommunication's environment, and to provide knowledge and skills necessary to foster life-long learning.

Program Objectives

1. Provide students with both theoretical and practical foundations of telecommunications engineering
2. Engage faculty and students in research endeavors in telecommunications hardware, software, and systems
3. Promote professional development and growth of students and faculty
4. Produce graduates with effective communications skills required for career advancement
5. Endow students with a sense of professionalism, professional ethics, and active participation in the affairs of the profession

Degree Requirements

Thirty(30), or thirty-six (36), semester hours are required for the Master of Science Degree in Engineering depending upon which of the following three options the student selects with approval of his or her department chairperson and/or advisor.

Option 1 Twenty-four (24) semester hours of coursework plus a six-hour thesis

Option 2 Twenty-seven (27) semester hours of coursework plus a three-hour project

Option 3 Thirty-six (36) semester hours of coursework

Option 1 Requires a formal written thesis, formal presentation and oral exam.

Option 2 Requires a written project report, formal presentation and oral exam.

Option 3 Requires an oral exam.

To remain in "good standing," students must maintain a minimum cumulative grade point average (GPA) of 3.0 ("B average).

Core Courses

Each emphasis area has either three or four core courses (9 to 12 semester hours). Electives are selected with approval of the student's graduate committee and/or graduate advisor

Code	Title	Hours
CPE 540		3
CPE 541	COMPUTER NETWORK	3
CPE 543		3
CPE 551	DIGITAL SIGNAL PROCESSING	3

Elective Courses

Code	Title	Hours
CPE 500	SOFTWARE ENGINEERING	3
CPE 520	ADVANCED ENGINEERING ANALYSIS	3
CPE 521	ADVANCED ENGINEERING ANALYSIS II	3
CPE 545	ANTENNAS	3
CPE 693	ADVANCED TOPICS-IC DESIGN	3
CPE 697	INTERNSHIP	1-3
CPE 698	INDEPENDENT STUDY	1-4
CPE 699	THESIS	1-6