2024 – 2025 Electrical Engineering Course Flow Chart
Communication Devices Focus Area – Model 4 Year Program

Year 1
- ENG 1430 Design in Engineering
- ECE 3580 Foundations of Electromagnetics
- MATH 1510 Introduction to General Calculus
- PHYS 1050 Introduction to Modern Physics
- STAT 2220 Engineering Statistics

Year 2
- ECE 3600 Electromagnetic Theory
- ECE 3690 Introduction to Communication Systems
- ECE 3780 Advanced Circuit Analysis
- ECE 3800 Microwave Engineering
- ECE 4250 Introduction to Communication Devices

Year 3
- ECE 4260 Introduction to Digital Communications
- ECE 4290 Introduction to Microwave Engineering
- ECE 4300 Introduction to Signal Processing
- ECE 4350 Introduction to Control Systems
- ECE 4400 Introduction to Communication Devices

Year 4
- ECE 4600 Group Design Project

Additional required elective courses which may be completed in any term.

1. The written English requirement is satisfied by completing three (3) credit hours from the list of approved Written English Courses for Engineering Students listed in the Academic Calendar (see Price Faculty of Engineering, Faculty Academic Regulations).

2. Students must take either of:
   - ENG 2030 or ENG 2040, ECE 3580, ECE 3610, ECE 3670, ECE 3720, and ECE 3780
   - ECE 4250 or ECE 4290

3. Technical Electives:
   - Seven (7) technical electives are required to complete the program. Five (5) form the Communication Systems Focus Area. The two (2) remaining electives may be selected from either the Group A or Group B electives lists of the Electrical Engineering Standard Program.

This flow chart is intended as a guide, and only applies for the current academic year. It should not be used as a guide for subsequent years. Errors may be present in this document. Students should refer to information in the Academic Calendar.

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Electrical Engineering Focus Areas

Students wishing to pursue more focused studies in an Electrical Engineering subject/research area have the choice of doing so through a recognized Focus Area. Courses taken towards a Focus Area take the place of some or all of the Technical Electives required in the Electrical Engineering program.

**COMUNICATION DEVICES FOCUS AREA**

Requirements:
To complete the Communication Devices Focus the three (3) prescribed courses must be taken. Two (2) of the five Communication Devices Technical Elective Courses must also be taken. To complete the program requirements two (2) additional courses must be selected from the elective courses listed in the Electrical Engineering Standard Program.

**PRESCRIBED COMMUNICATION DEVICES COURSES:** (All are required)
- ECE 4270 Antennas
- ECE 4290 Microwave Engineering
- ECE 4250 Digital Communications or ECE 4830 Signal Processing 2

**COMMUNICATION DEVICES ELECTIVE COURSES:** (2 required)
- ECE 4250 Digital Communications
- ECE 4280 Engineering Electromagnetics
- ECE 4430 Design of RF Devices and Wireless Systems
- ECE 4580 Optoelectronics
- ECE 4830 Signal Processing 2