2024 – 2025 Electrical Engineering Course Flow Chart
Model 4 Year Program

Year 1
Fall Term
ENG 1440 Introduction to Statics
(3)
ENG 1460 Introduction to Thermal Sciences
(3)
PHYS 1050 Physics 1: Mechanics
(3)
MATH 1510 Calculus 1
(3)
MATH 1210 Calculus and Linear Algebra
(3)
COMP 1012 Computer Programming for Scientists and Engineers
(3)
CHEM 1100 Introduction to University Chemistry 1
(3)
CHEM 1122 Introduction to Chemical Techniques for Engineering 1
(1.5)

Year 2
Fall Term
ENG 1430 Design in Engineering
(3)
ECE 3580 Foundations of Electromagnetics
(4)
ECE 3610 Microprocessing Systems
(4)
ECE 3670 Electronics 3E
(4)
MATH 2132 Engineering Mathematical Analysis 2
(3)
ECE 2580 Foundations of Digital Logic Systems
(4)
ECE 2200 Digital Logic Systems
(5)
ENG 2030 Engineering Communication: Strategies for the Profession
(3)
ENG 2040 Engineering Communication: Strategies, Practice, and Design
(3)

Year 3
Fall Term
ENG 2030 or ENG 2040, ECE 3580, ECE 3610, ECE 3670, and ECE 3720
ECE 3610 Microprocessing Systems
(4)
ECE 3720 Electric Power and Machines
(4)
ECE 3780 Signal Processing 1
(4)
ECE 3730 Principles of Embedded Systems Design
(4)
ENG 2030 or ENG 2040, ECE 3580, ECE 3610, ECE 3670, and ECE 3720
ECE 3730 Principles of Embedded Systems Design
(4)

Year 4
Fall Term
ENG 4600 Group Design Project
(8)
ECE 4150 Control Systems
(4)
ECE 4600 Group Design Project
(8)
Technical Elective
(3)
Technical Elective
(3)
Technical Elective
(3)
Technical Elective
(3)
Technical Elective
(3)

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 Engineering Communication: Strategies for the Profession
   - ENG 2040 Engineering Communication: Strategies, Practice, and Design

3. Technical Electives:
   - Seven (7) technical electives are required to complete the program. They are divided into Group A and Group B lists.
   - At least three (3) of these electives must be selected from the Group A technical electives list.
   - Technical electives may be taken at anytime, subject to prerequisites.

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.

1 April 2024, v.1