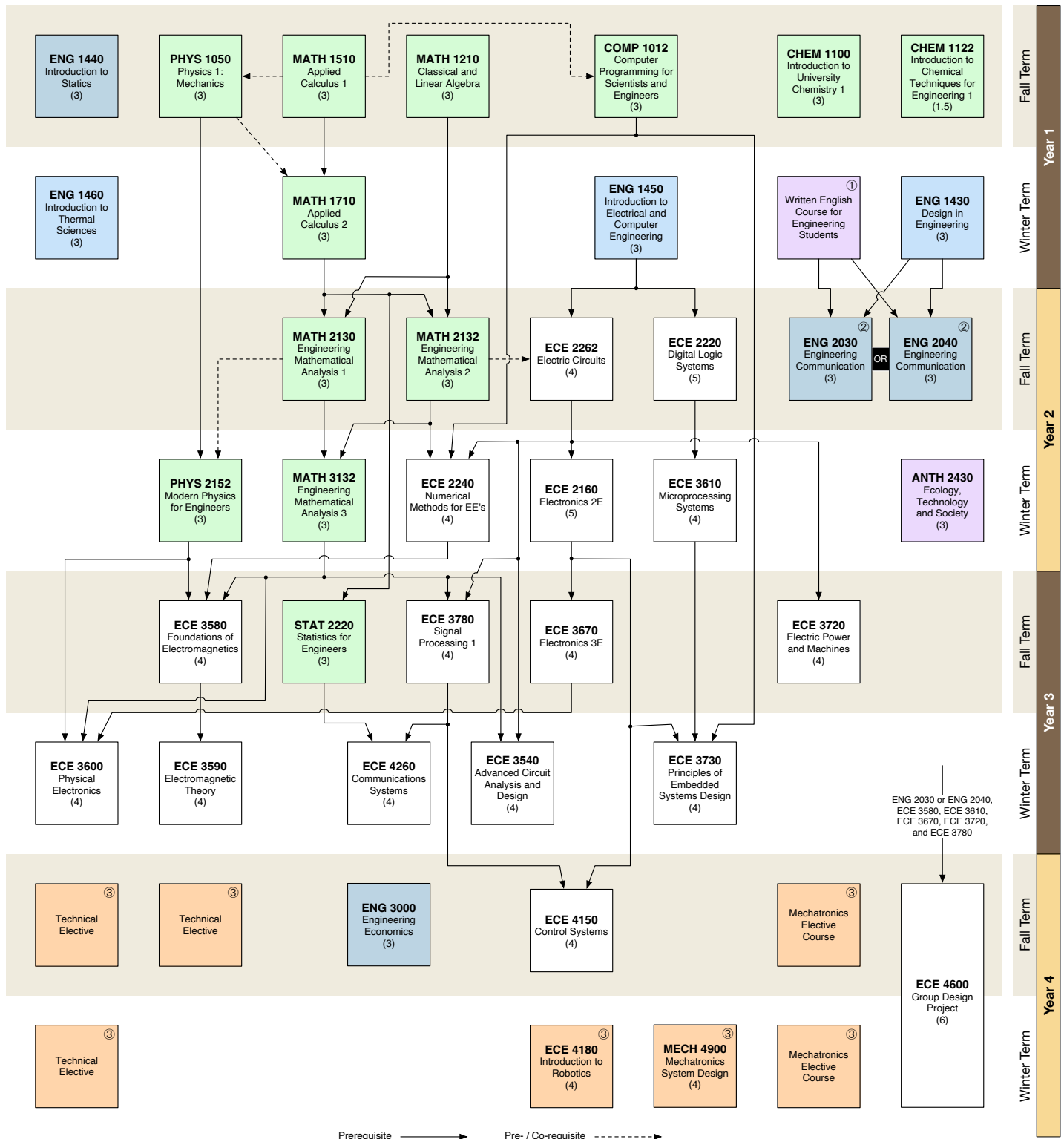


2024 – 2025 Electrical Engineering Course Flow Chart Mechatronics Focus Area – Model 4 Year Program

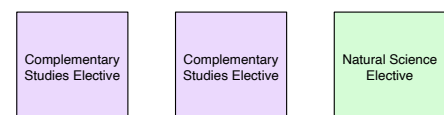


① The written English requirement is satisfied by completing three (3) credit hours from the list of approved *Written English Courses for Engineering Students* listed in the *Academic Calendar* (see *Price Faculty of Engineering, Faculty Academic Regulations*).

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. The two (2) courses *ECE 4180 Introduction to Robotics* and *MECH 4900 Mechatronics System Design* must be taken. Two (2) Mechatronics Technical Electives must also be selected. The three (3) remaining electives may be selected from either the *Qualified Engineering Design Electives* or *Technical Electives List* in the Electrical Engineering Standard Program.
 – At least three (3) of the elective courses taken **MUST** be selected from the *Qualified Engineering Design Electives* list.
 – Technical electives may be taken at anytime, subject to prerequisites.

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



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.

MECHATRONICS FOCUS AREA

Requirements:

To complete the Mechatronics Focus the two (2) prescribed courses must be taken. Two (2) of the five Mechatronics Technical Elective courses must also be taken. To complete program requirements, students must select three (3) additional electives from the Qualified Engineering Design Electives and/or Technical Electives in the Electrical Engineering standard program.

*Of the seven (7) prescribed and elective courses taken, three (3) **MUST** be selected from the Qualified Engineering Design Electives list.*

PRESCRIBED MECHATRONICS COURSES: (All are required)

ECE 4180 Introduction to Robotics

MECH 4900 Mechatronic System Design

MECHATRONICS TECHNICAL ELECTIVE COURSES: (2 required)

ECE 4160 Control Engineering

ECE 4240 Microprocessor Interfacing

ECE 4370 Power Electronics

ECE 4440 Computer Vision

ENG 4110 Operational Excellence