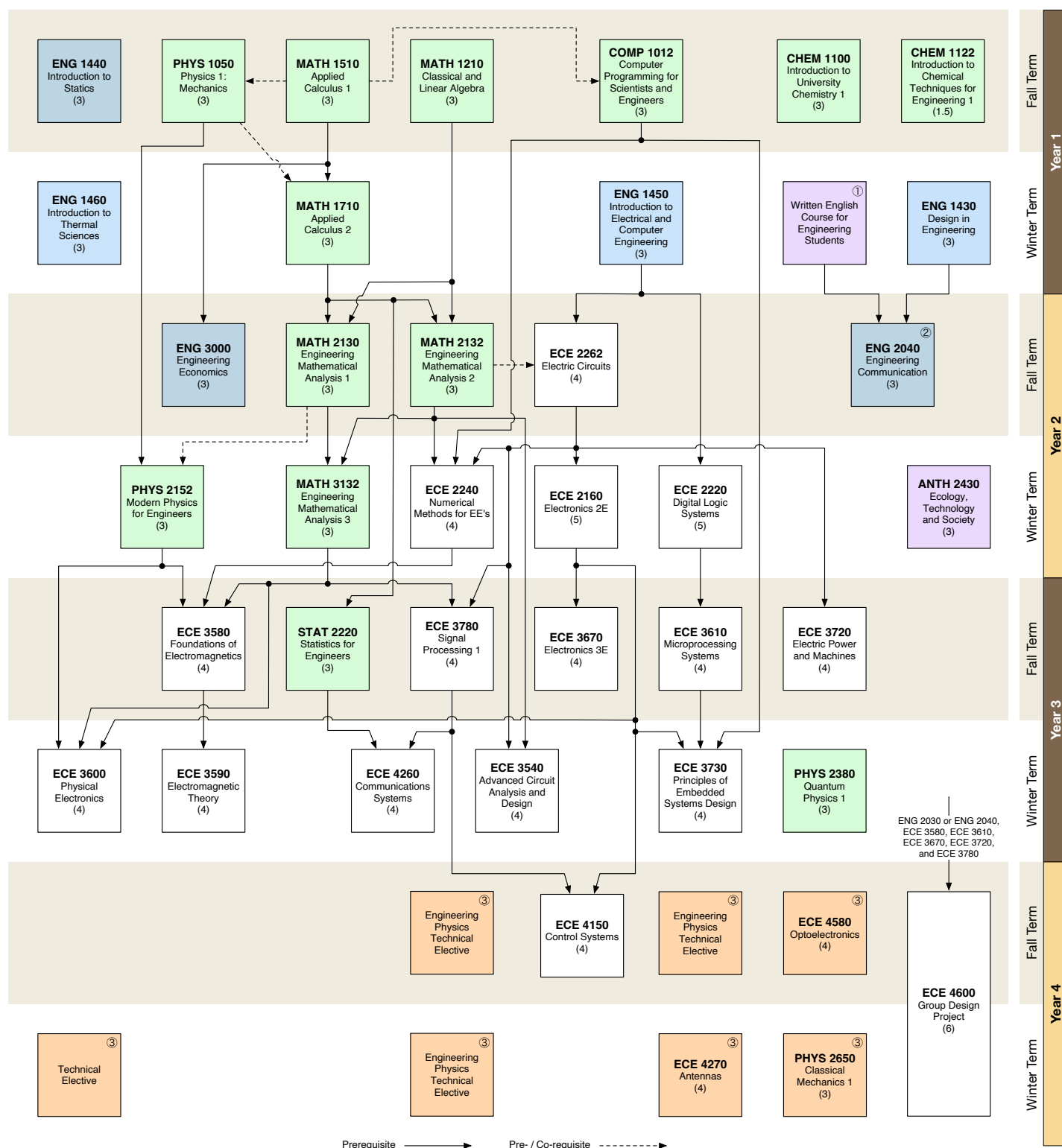


2025 – 2026 Electrical Engineering Course Flow Chart

Engineering Physics 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. Six (6) form the *Engineering Physics Focus Area*. The one (1) remaining elective may be selected from either the *Group A* or *Group B* electives lists of the Electrical Engineering Standard Program.
- Technical electives may be taken at anytime, subject to prerequisites.

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

Complementary Studies Elective

Complementary Studies Elective

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.

ENGINEERING PHYSICS FOCUS AREA

Requirements:

In the standard Electrical Engineering program, seven (7) Technical Elective courses and one (1) Natural Sciences Elective are required. To complete the Engineering Physics focus area, students are required to take a total of seven (7) courses as indicated below, including the four (4) prescribed Engineering Physics courses. Three (3) further courses must be taken from the list of Engineering Physics Elective courses. To complete the program requirements one (1) additional course must be selected from the elective courses listed in the Electrical Engineering Standard Program.

PRESCRIBED ENGINEERING PHYSICS COURSES:

ECE 4270 Antennas
ECE 4580 Optoelectronics
PHYS 2386 Introduction to Quantum Mechanics and Special Relativity
PHYS 2650 Classical Mechanics 1

ENGINEERING PHYSICS TECHNICAL ELECTIVE COURSES: (3 required)

ECE 4860 Materials Characterization
PHYS 2260 Optics
PHYS 3220 Medical Physics and Physiological Measurement
PHYS 3386 Quantum Mechanics 2
PHYS 3430 Honours Physics Laboratory
PHYS 3570 Physics of Materials 1
PHYS 3650 Classical Mechanics 2
PHYS 3670 Classical Thermodynamics
PHYS 4520 Introduction to Solid State Physics
PHYS 4590 Advanced Optics
PHYS 4646 Electro- and Magnetodynamics and Special Relativity
PHYS 4680 Statistical Mechanics