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.

2023 – 2024 Computer Engineering Course Flow Chart
Embedded Systems 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. Students must take one of:
   – ECE 3630 Real-time Embedded Systems
   – ECE 4530 Parallel Processing
   – COMP 3430 Operating Systems

4. Technical Electives:
   – Five (5) technical electives are required to complete the program. Three (3) form part of the Focus Area.
   – At most two (2) of these electives may be selected from the list of approved Electrical Engineering courses.
   – Technical electives may be taken at any time, subject to prerequisites.

Additional required elective courses which may be completed in any term.
Computer Engineering Focus Areas

Students wishing to pursue more focused studies in a Computer 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 of the Technical Electives required in the Computer Engineering program.

**EMBEDDED SYSTEMS FOCUS AREA**

**Requirements:**
To complete the Embedded Systems Focus the prescribed course must be taken. Three (3) of the nine Embedded Systems 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 Computer Engineering Standard Program.

**Prescribed Embedded Systems Course** (required)
ECE 4150 Control Systems

**Embedded Systems Technical Elective Courses** (3 required)
- ECE 3630 Real-time Embedded Systems
- ECE 3770 Digital Systems Design 2
- ECE 4180 Introduction to Robotics
- ECE 4440 Computer Vision
- ECE 4560 Modern Computing Systems
- ECE 4610 Biomedical Instrumentation and Signal Processing
- ECE 4740 Digital System Implementation
- COMP 3020 Human-Computer Interaction 1
- COMP 4580 Computer Security

1. If selected as a focus area elective, this course may not be used to satisfy other program requirements.