BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

CURRICULUM OUTLINE - CLASS OF 2021, 2022, 2023

Sample Only – Actual Curriculum Sequence May Deviate from Sample

FALL | SPRING | SUMMER 1 | SUMMER 2

Year 1
- **MATH1341** Calculus 1 for Engrs. 4 - **MATH1342** Calculus 2 for Engrs. 4 - **Vacation**
- **CHEM1151** General Chem for Engrs. 4 - **PHYS1151** Physics 1 for Engrs. 3 - **Vacation**
- **CHEM1153** Writing for CHEM1151 0 - **PHYS1152** Physics 1 Lab 1
- **GE1301** Cornerstone of Engineering 1 4 - **PHYS1153** ILS for PHYS1151 1 - **GE1502** Cornerstone of Engineering 2 4
- **ENGW1111** College Writing 4 - **GE1501** Cornerstone of Engineering 1 4 - **GE1502** Cornerstone of Engineering 2 4

Year 2
- **MATH2341** Diff. Eq./Lin. Alg. 4 - **MATH2321** Calculus 3 for Engrs. 4 - **Vacation**
- **PHYS1155** Physics 2 for Engrs. 3 - **EECE2000** Intro to Eng'g. Coop 1
- **PHYS1156** Physics 2 Lab 1 - **EECE2160** Embedded Design: Enabling Robotic 4/5
- **PHYS1157** ILS for PHYS1155 1 - **EECExxxx** EE Fundamentals 4/5 - **Vacation**
- **ECE2150** Circuits/Signals: Biomed Apps. 5 - **EECExxxx** EE Fundamentals 4/5 - **Co-op**
- **EECE2000** Intro to Eng'g. Coop 1 - **EECExxxx** EE Fundamentals 4/5 - **EECExxxx** EE Fundamentals 4/5

Year 3
- **MATH2331** Calculus 3 for Engrs. 4 - **EECExxxx** EE Fundamentals 4/5 - **Adv. Writing Prof.**
- **ECE2149** Embedded Design: Enabling Robotic 4 - **EECExxxx** EE Fundamentals 4/5 - **Co-op**
- **ECE2412/2413** Fundamentals Electronics 1 & lab 4, **EECExxxx** EE Fundamentals 4/5 - **EECE4790** Capstone 1 4
- **ECE2520** Fundamentals Linear Systems 4 - **EECExxxx** EE Fundamentals 4/5 - **Co-op**
- **ECE2530/2531** Fundamentals Electromagnetics & lab. 4 - **ECE4790** Capstone 1 4
- **ECE3150** General Elective 4 - **ECE3150** General Elective 4 - **ECE3324-3410**
- **EECE2000** Intro to Eng'g. Coop 1 - **EECE2750** Prof. Issues in Eng'g. 4
- **EECE2540** Fundamentals Networks 4 - **EECE3468** ECE Tech Elective 1 4
- **EECE2560** Fundamentals Algorithms 4 - **EECE3468** ECE Tech Elective 2 4
- **EECExxxx** General Elective 4 - **EECE3468** ECE Tech Elective 3 4

Year 4
- **EECE2000** Intro to Eng'g. Coop 1 - **EECExxxx** General Elective 4
- **EECE2150** Circuits/Signals: Biomed Apps. 5 - **EECExxxx** General Elective 4
- **EECE2322/2323** Fundamentals Digital Design & Lab 4
- **EECExxxx** General Elective 4
- **EECE2540** Fundamentals Networks 4
- **EECE2560** Fundamentals Algorithms 4
- **EECExxxx** General Elective 4

Year 5
- **EECExxxx** General Elective 4
- **EECExxxx** General Elective 4

The Capstone Design Courses are taken as follows: (EECE4790 - Summer 1 and EECE4792 - Spring) OR (EECE4790 - Summer 2 and EECE4792 - Fall)

* ENGW3302 is an acceptable substitution for engineering majors.

NUpath requirements, Interpreting Culture (IC), Societies and Institutions (SI) and Differences and Diversity (DD) are not explicitly satisfied by required engineering courses. Students are responsible for satisfying these requirements, and if these are not fulfilled in engineering courses, should use General Electives to do so. General Electives are academic, non-remedial, non-repetitive courses.

7 Required General Electives


1 Required CE Fundamental: ECE2322/2323 - Fundamentals Digital Design & Lab OR ECE2540 - Fundamentals Networks OR ECE2560 - Fundamentals Algorithms (CE Fundamentals not taken to meet the above requirement may also be taken as a technical elective.)

Technical Elective Requirements: 4 EE technical electives.

ECE2322, ECE2540, ECE2750, ECE3154, ECE3324-3410, ECE4512-ECE4698, ECE4491-ECE4493, ECE5515-EECE5698, GE460B, ENG5670

Please check with your advisor when taking a general elective in overlapping disciplines:

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The registrar’s website provides a listing of degree requirements and the DARS system provides a degree audit utility for students.

Revised March/2018