**BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING**

**CURRICULUM OUTLINE - CLASS OF 2021, 2022, 2023, 2024**

*Sample Only – Actual Curriculum Sequence May Deviate from Sample*

FALL | SPRING | SUMMER 1 | SUMMER 2
---|---|---|---
**Year 1**
MATH1341 Calculus 1 for Engrs. | MATH1342 Calculus 2 for Engrs. | Vacation | Vacation
CHEM1151 General Chem for Engrs. | PHYS1151 Physics 1 for Engrs. | 4 | 4
CHEM1153 Reactction for CHEM1151 | PHYS1152 Physics 1 Lab | 3 | 1
GE1300 Intro to Eng g. | PHYS1153 ILS for PHYS1151 | 1 | 1
GE1501 Cornerstone of Engineering 1 | GE1502 Cornerstone of Engineering 2 | 4 | 4
ENGW1111 College Writing | Elective General Elective | 4 | 4

**Year 2**
AA
MATH1341 Diff. Eq./Lin. Alg. | MATH2321 Calculus 3 for Engrs. | 4 | 4
PHYS1155 Physic 2 for Engrs. | ENCP2000 Intro to Engg. Coop | 3 | 1
PHYS1156 Physic 2 Lab | ECE2110 Embedded Design: Enabling Robotic | 1 | 4/5
PHYS1157 ILS for PHYS1155 | Elective General Elective | 1 | 4/5
ECE2150 Circuits/SIGNALS: Biomed Apps. | Elective General Elective | 5 | 4

BB
MATH2341 Calculus 3 for Engrs. | MATH2321 Calculus 3 for Engrs. | 4 | 4
PHYS1155 Physic 2 for Engrs. | ENCP2000 Intro to Engg. Coop | 3 | 1
PHYS1156 Physic 2 Lab | ECE2110 Embedded Design: Enabling Robotic | 1 | 4/5
PHYS1157 ILS for PHYS1155 | Elective General Elective | 1 | 4/5
ECE2150 Circuits/SIGNALS: Biomed Apps. | Elective General Elective | 5 | 4

**Year 3**
AA
MATH2321 Calculus 3 for Engrs. | ECExxxx EE Fundamentals | 4 | 4/5
ECE2140 Embedded Design: Enabling Robotic | ECExxxx EE Fundamentals | 4 | 4/5
ECE3150 Circuits/SIGNALS: Biomed Apps. | ECExxxx EE Fundamentals | 5 | 4/5
Elective General Elective | ECExxxx EE Fundamentals | 4 | 4/5
ENCP2000 Intro to Engg. Coop | Elective General Elective | 4 | 4

BB
MATH2321 Calculus 3 for Engrs. | ECExxxx EE Fundamentals | 4 | 4/5
ECE2140 Embedded Design: Enabling Robotic | ECExxxx EE Fundamentals | 4 | 4/5
ECE3150 Circuits/SIGNALS: Biomed Apps. | ECExxxx EE Fundamentals | 5 | 4/5
Elective General Elective | ECExxxx EE Fundamentals | 4 | 4/5
ENCP2000 Intro to Engg. Coop | Elective General Elective | 4 | 4

**Year 4**
AA
MATH2321 Calculus 3 for Engrs. | ECExxxx EE Fundamentals | 4 | 4/5
ECE2140 Embedded Design: Enabling Robotic | ECExxxx EE Fundamentals | 4 | 4/5
ECE3150 Circuits/SIGNALS: Biomed Apps. | ECExxxx EE Fundamentals | 5 | 4/5
Elective General Elective | ECExxxx EE Fundamentals | 4 | 4/5
ENCP2000 Intro to Engg. Coop | Elective General Elective | 4 | 4

BB
MATH2321 Calculus 3 for Engrs. | ECExxxx EE Fundamentals | 4 | 4/5
ECE2140 Embedded Design: Enabling Robotic | ECExxxx EE Fundamentals | 4 | 4/5
ECE3150 Circuits/SIGNALS: Biomed Apps. | ECExxxx EE Fundamentals | 5 | 4/5
Elective General Elective | ECExxxx EE Fundamentals | 4 | 4/5
ENCP2000 Intro to Engg. Coop | Elective General Elective | 4 | 4

**Year 5**
AA
MATH2321 Calculus 3 for Engrs. | ECExxxx EE Fundamentals | 4 | 4/5
ECE2140 Embedded Design: Enabling Robotic | ECExxxx EE Fundamentals | 4 | 4/5
ECE3150 Circuits/SIGNALS: Biomed Apps. | ECExxxx EE Fundamentals | 5 | 4/5
Elective General Elective | ECExxxx EE Fundamentals | 4 | 4/5
ENCP2000 Intro to Engg. Coop | Elective General Elective | 4 | 4

BB
MATH2321 Calculus 3 for Engrs. | ECExxxx EE Fundamentals | 4 | 4/5
ECE2140 Embedded Design: Enabling Robotic | ECExxxx EE Fundamentals | 4 | 4/5
ECE3150 Circuits/SIGNALS: Biomed Apps. | ECExxxx EE Fundamentals | 5 | 4/5
Elective General Elective | ECExxxx EE Fundamentals | 4 | 4/5
ENCP2000 Intro to Engg. Coop | Elective General Elective | 4 | 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: EEC2222/2223 - Fundamentals Digital Design & Lab OR EEC2540 - Fundamentals Networks OR EEC2560 - Fundamentals Algorithms (CE Fundamentals not taken to meet the above requirement may also be taken as a technical elective.)

Technical Elective Requirements: 4 EECE technical electives.

EECE2322, (EECE2540-EECE2750), EEC3154, (EECE3324-EECE3410), (EECE4512-EECE4698), (EECE4991-EECE4993), (EECE5115-EECE5698), GE4608, ENGR5670

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

Find your Academic Advisor

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