

**BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING  
CURRICULUM OUTLINE - CLASS OF 2025**

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

	FALL	SPRING	SUMMER 1	SUMMER 2
Year 1	MATH1341 Calculus 1 for Engrs. 4 CHEM1151 General Chem for Engrs. 4 CHEM1153 Recitation for CHEM1151 0 GE1000 Intro to Eng'g. 1 GE1501 Cornerstone of Engineering 1 4 ENGW1111 College Writing 4	MATH1342 Calculus 2 for Engrs. 4 PHYS1151 Physics 1 for Engrs. 3 PHYS1152 Physics 1 Lab 1 PHYS1153 ILS for PHYS1151 1 GE1502 Cornerstone of Engineering 2 4 Elective General Elective 4	Vacation	Vacation
Year 2 AA	MATH2341 Diff. Eq./Lin. Alg. 4 PHYS1155 Physic 2 for Engrs. 3 PHYS1156 Physics 2 Lab 1 PHYS1157 ILS for PHYS1155 1 EECE2150 Circuits/Signals: Biomed Apps. 5 Elective General Elective 4	MATH2321 Calculus 3 for Engrs. 4 ENCP2000 Intro to Eng'g. Coop 1 EECE2160 Embedded Design: Enabling Robotic 4 EECExxxx EE Fundamentals 4/5 Elective General Elective 4	Vacation	Co-op
Year 2 BB	MATH2341 Diff. Eq./Lin. Alg. 4 PHYS1155 Physic 2 for Engrs. 3 PHYS1156 Physics 2 Lab 1 PHYS1157 ILS for PHYS1155 1 EECE2150 Circuits/Signals: Biomed Apps. 5 Elective General Elective 4 ENCP2000 Intro to Eng'g. Coop 1	Co-op	Co-op	Vacation
Year 3 AA	Co-op	EECExxxx EE Fundamentals 4/5 EECExxxx EE Fundamentals 4/5 EECExxxx CE Fundamentals 4/5 Elective General Elective 4	Elective General Elective 4 *ENGW3302 Adv. Writing Prof. 4	Co-op
Year 3 BB	MATH2321 Calculus 3 for Engrs. 4 EECE2160 Embedded Design: Enabling Robotic 4 EECExxxx EE Fundamentals 4/5 Elective General Elective 4	Co-op	Co-op	*ENGW3302 Adv. Writing Prof. 4 Elective General Elective 4
Year 4 AA	Co-op	ENCP3000 Prof. Issues in Eng'g. 1 Elective EECE Tech Elective 1 4 Elective General Elective 4 EECE3468 Noise & Stoch. Proc. 4 Elective General Elective 4	EECE4790 Capstone 1 4 Elective EECE Tech Elective 2 4	Co-op
Year 4 BB	ENCP3000 Prof. Issues in Eng'g. 1 EECExxxx EE Fundamentals 4/5 EECExxxx EE Fundamentals 4/5 Elective General Elective 4 EECExxxx CE Fundamentals 4/5	Co-op	Co-op	Elective EECE Tech Elective 1 4 EECE4790 Capstone 1 4
Year 5 AA	Co-op	EECE4792 Capstone Design 2 4 Elective EECE Tech Elective 3 4 Elective EECE Tech Elective 4 4		
Year 5 BB	EECE4792 Capstone Design 2 4 Elective EECE Tech Elective 2 4 EECE3468 Noise & Stoch. Proc. 4 Elective General Elective 4	Elective General Elective 4 Elective EECE Tech Elective 3 4 Elective EECE Tech Elective 4 4		

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

Revised March/2018

\* ENGW3315 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**

**3 Required EE Fundamentals:** EECE2412/2413 - Fundamentals Electronics 1 & lab **AND** EECE2520 - Fundamentals Linear Systems **AND** EECE 2530/2531 - Fundamentals Electromagnetics & lab.

**1 Required CE Fundamental:** EECE2322/2323 - Fundamentals Digital Design & Lab **OR** EECE2540 - Fundamentals Networks **OR** EECE2560 - 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), EECE3154, (EECE3324-EECE3410), (EECE4512-EECE4698), (EECE4991-EECE4993), (EECE5115-EECE5698), GE4608, ENGR5670

Please speak with your academic advisor regarding possibilities of Dialogues of Civilization courses and study abroad.

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.