

**BACHELOR OF SCIENCE IN COMPUTER ENGINEERING - 4 YEAR 2 COOP OPTION**

**CURRICULUM OUTLINE - CLASS OF 2020, 2021, 2022, 2023**

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

	FALL	SPRING	SUMMER 1	SUMMER 2
<b>Year 1</b>	<a href="#">MATH1341</a> Calculus 1 for Engrs. 4 <a href="#">CHEM1151</a> General Chem for Engrs. 4 <a href="#">CHEM1153</a> Recitation for CHEM1151 0 <a href="#">GE1000</a> Intro to Eng'g. 1 <a href="#">GE1501</a> Cornerstone of Engineering 1 4 <a href="#">ENGW1111</a> College Writing 4	<a href="#">MATH1342</a> Calculus 2 for Engrs. 4 <a href="#">PHYS1151</a> Physics 1 for Engrs. 3 <a href="#">PHYS1152</a> Physics 1 Lab 1 <a href="#">PHYS1153</a> ILS for PHYS1151 1 <a href="#">GE1502</a> Cornerstone of Engineering 2 4 Elective General Elective 4	Elective General Elective 4 Elective General Elective 4	Vacation
<b>Year 2 MC</b>	<a href="#">MATH2341</a> Diff. Eq./Lin.Alg. 4 <a href="#">PHYS1155</a> Physics 2 for Engrs. 3 <a href="#">PHYS1156</a> Physics 2 Lab 1 <a href="#">PHYS1157</a> ILS for PHYS1155 1 <a href="#">EECE2160</a> Embedded Design: Enabling Roboti 4 Elective General Elective 4	<a href="#">CS1800</a> Discrete Structures 4 <a href="#">CS1802</a> Recitation for CS1800 1 <a href="#">EECE2000</a> Intro to Eng'g. Coop 1 <a href="#">EECE2150</a> Circuits/Signals: Biomed Apps. 5 EECExxxx CE Fundamentals 4/5 EECExxxx CE Fundamentals 4/5	<a href="#">MATH3081</a> Prob & Statistics 4 Elective General Elective 4	Co-op
<b>Year 2 MD</b>	<a href="#">MATH2341</a> Diff. Eq./Lin.Alg. 4 <a href="#">PHYS1155</a> Physics 2 for Engrs. 3 <a href="#">PHYS1156</a> Physics 2 Lab 1 <a href="#">PHYS1157</a> ILS for PHYS1155 1 <a href="#">EECE2160</a> Embedded Design: Enabling Roboti 4 <a href="#">EECE2000</a> Intro to Eng'g. Coop 1 Elective General Elective 4	Co-op	Co-op	<a href="#">MATH3081</a> Prob & Statistics 4 Elective General Elective 4
<b>Year 3 MC</b>	<a href="#">ENGW3302</a> Adv Writing in the Tech Prof (to be taken online) 4 Co-op	EECExxxx CE Fundamentals 4/5 EECExxxx EE Fundamentals 4/5 <a href="#">EECE3000</a> Prof. Issues in Eng'g. 1 Elective General Elective 4 Elective EECE Tech Elective 1 4	<a href="#">EECE4790</a> Capstone 1 4 Elective EECE Tech Elective 2 4	Co-op
<b>Year 3 MD</b>	<a href="#">CS1800</a> Discrete Structures 4 <a href="#">CS1802</a> Recitation for CS1800 1 <a href="#">EECE2150</a> Circuits/Signals: Biomed Apps. 5 EECExxxx CE Fundamentals 4/5 <a href="#">EECE3000</a> Prof. Issues in Eng'g 1 Elective General Elective 4	<a href="#">ENGW3302</a> Adv Writing in the Tech Prof (to be taken online) 4 Co-op	Co-op	<a href="#">EECE4790</a> Capstone 1 4 Elective EECE Tech Elective 1 4
<b>Year 4 MC</b>	Co-op	<a href="#">EECE4792</a> Capstone Design 2 4 Elective EECE Tech Elective 3 4 Elective EECE Tech Elective 4 4 Elective General Elective 4		
<b>Year 4 MD</b>	<a href="#">EECE4792</a> Capstone Design 2 4 EECExxxx CE Fundamentals 4/5 EECExxxx CE Fundamentals 4/5 EECExxxx EE Fundamentals 4/5	Elective EECE Tech Elective 2 4 Elective EECE Tech Elective 3 4 Elective EECE Tech Elective 4 4 Elective General Elective 4		

Revised March/2018

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

\* [ENGW3315](#) is an acceptable substitution for engineering majors.

**NUPATH Requirements through General Electives-** 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 CE Fundamentals:** EECE2322/2323: Fundamentals Digital Design & Lab AND EECE2540 - Fundamentals Networks AND EECE2560 - Fundamentals Algorithms

**1 Required EE Fundamentals:** EECE2412/2413 - Fundamentals Electronics 1 & Lab OR EECE2520 - Fundamentals Networks AND EECE2530/2531 - Fundamentals Electromagnetics & Lab (EE Fundamentals not taken to meet the above requirement may also be taken as a technical elective.)

**Technical Elective Requirements: 4 EECE technical electives.**

(EECE2412-2530), EECE2750, EECE3154 (EECE3324-EECE3468), (EECE4512-EECE4698), (EECE4991- EECE4993), (EECE5515-EECE5698), GE4608, ENGR5670

**2 CS courses from the following approved list may be taken toward the EECE technical elective requirement:**

Approved List: CY2550, (CS3200-CS3500), (CS3540-CS3800), (CS4100-CY4770), CS4850, (IS4200- IS4700)

**Note:** AP credit for MATH2280 will substitute for MATH3081 requirement.

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.