

**BACHELOR OF SCIENCE IN BIOENGINEERING - 4 Year 2 Co-op Plan  
CURRICULUM OUTLINE - CLASS OF 2024**

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

	FALL	SPRING	SUMMER 1	SUMMER 2
<b>Year 1 (MC)</b>	<a href="#">MATH1342</a> Calculus 2 for Engrs. 4 <a href="#">CHEM1151</a> General Chem. for Engrs. 4 <a href="#">CHEM1153</a> Recitation for CHEM1151 0 <a href="#">GE 1501</a> Cornerstone of Eng'g. 1 4 <a href="#">GE 1000</a> Intro. to Eng'g. 4 <a href="#">ENGW1111</a> College Writing 4	<a href="#">MATH2321</a> Calculus 3 for Engrs. 4 <a href="#">PHYS1171</a> Physics 1 for BioE 3 <a href="#">PHYS1172</a> Physics 1 Lab 1 <a href="#">PHYS1173</a> ILS for PHYS1151 1 <a href="#">GE 1502</a> Cornerstone of Eng'g. 2 4 Elective General Elective 1 4	<a href="#">BIOL1115</a> Biology 4 <a href="#">BIOL1116</a> Lab for BIOL1115 1 Elective General Elective 4	Vacation
<b>Year 1 (MD)</b>	<a href="#">MATH1342</a> Calculus 2 for Engrs. 4 <a href="#">CHEM1151</a> General Chem. for Engrs. 4 <a href="#">CHEM1153</a> Recitation for CHEM1151 0 <a href="#">GE 1501</a> Cornerstone of Eng'g. 1 4 <a href="#">GE 1000</a> Intro. to Eng'g. 1 <a href="#">ENGW1111</a> College Writing 4	<a href="#">MATH2341</a> Differential Eq & Lnr Alg for 4 <a href="#">PHYS1171</a> Physics 1 for BioE 3 <a href="#">PHYS1172</a> Physics 1 Lab 1 <a href="#">PHYS1173</a> ILS for PHYS1151 1 <a href="#">GE 1502</a> Cornerstone of Eng'g. 2 4 Elective General Elective 4	<a href="#">BIOL1115</a> Biology for Engineers 4 <a href="#">BIOL1116</a> Lab for BIOL1115 1 <a href="#">PHYS1175</a> Physics 2 for BioE 3 <a href="#">PHYS1176</a> Physics 2 Lab 1 <a href="#">PHYS1177</a> ILS for PHYS1175 1	Vacation
<b>Year 2 (MC)</b>	<a href="#">BIOE2365</a> BioE Meas. Exp. & Stats. 4 <a href="#">BIOE2366</a> Lab for BIOE2365 1 <a href="#">PHYS1175</a> Physics 2 for BioE 3 <a href="#">PHYS1176</a> Physics 2 Lab 1 <a href="#">PHYS1177</a> ILS for PHYS1175 1 <a href="#">MATH2341</a> Diff eq and Linear Algebra 4 Elective General Elective 4	<a href="#">ENCP2000</a> Intro to Eng'g, Co-op 1 <a href="#">BIOE2350</a> Biomechanics 4 <a href="#">BIOE2355</a> Quantitative Physiology* 4 Elective General Elective 4 Elective General Elective 4	<a href="#">BIOE3310</a> Transport & Fluids 4 Elective General Elective 4	Co-op
<b>Year 2 (MD)</b>	<a href="#">BIOE2350</a> Biomechanics 4 <a href="#">BIOE2365</a> BioE Meas. Exp. & Stats. 4 <a href="#">BIOE2366</a> Lab for BIOE2365 1 <a href="#">MATH2321</a> Calculus 3 for Engrs. 4 <a href="#">ENCP2000</a> Intro to Eng'g, Co-op 1 Elective General Elective 4	Co-op	Co-op	Elective General Elective 4 Elective General Elective 4
<b>Year 3 (MC)</b>	Co-op	<a href="#">ENCP3000</a> Prof. Issues in Eng'g. 1 <a href="#">BIOE3210</a> Bioelectricity* 4 <a href="#">BIOE3380</a> Biomol. Dynamics & Ctrl. 4 Elective BioE Elective 1 4 Elective BioE Elective 2 4	<a href="#">BIOE4790</a> Capstone Design 1 4 Elective General Elective 4	Co-op
<b>Year 3 (MD)</b>	<a href="#">BIOE3210</a> Bioelectricity* 4 <a href="#">BIOE2355</a> Quantitative Physiology* 4 Elective BioE Elective 1 4 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="#">BIOE4790</a> Capstone Design 1 4 <a href="#">BIOE3310</a> Transport & Fluids 4
<b>Year 4 (MC)</b>	Co-op  <a href="#">ENGW3302</a> Adv Writing in the Tech Prof (to be taken online)** 4	<a href="#">BIOE4792</a> Capstone Design 2 4 Elective BioE Elective 3 4 Elective BioE Elective 4 4 Elective BioE Elective 5 4		
<b>Year 4 (MD)</b>	<a href="#">ENCP3000</a> Prof. Issues in Eng'g. 1 <a href="#">BIOE4792</a> Capstone Design 2 4 <a href="#">BIOE3380</a> Biomol. Dynamics & Ctrl. 4 Elective BioE Elective 2 4 Elective General Elective 4	Elective BioE Elective 3 4 Elective BioE Elective 4 4 Elective BioE Elective 5 4 Elective General Elective 4		

Revised 5/7/2020

**You will need to have AP credit for Calc. AB (MATH1341 - Calculus 1 - 4 SH) - see advisor**

\* BIOE2355 and BIOE3210 can be taken in either order. Please consult with your academic advisor.

\*ENGW3315 is an acceptable substitution. Students may take ENGW 3302 or ENGW 3315 to fulfill their Advanced Writing in the Technical Professions requirement.

[Please consult with your Academic Advisor, found here.](#)

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