

**BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING  
CURRICULUM OUTLINE - CLASS OF 2022, 2023, 2024**

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

	FALL	SPRING	SUMMER 1	SUMMER 2
<b>Freshman 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="#">GE 1501</a> Cornerstone Eng. 1 4 <a href="#">ENGW1111</a> College Writing 4	<a href="#">MATH1342</a> Calculus 2 for Engrs. 4 <a href="#">PHYS1151</a> Physics 1 Engrs. 3 <a href="#">PHYS1152</a> Physics 1 Lab 1 <a href="#">PHYS1153</a> ILS for PHYS1151 1 <a href="#">GE 1502</a> Cornerstone Eng. 2 4 Elective General Elective 4	Vacation	Vacation
<b>Year 2 (AA)</b>	<a href="#">MATH2321</a> Calculus 3 for Engrs. 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="#">ME2350</a> Statics 4 Elective General Elective 1 4	<a href="#">MATH2341</a> Diff. Eq./ Lin. Alg. 4 <a href="#">ME2355</a> Mech. of Materials 4 <a href="#">ME2356</a> Lab for ME2355 1 <a href="#">ME2380</a> Thermodynamics 4 <a href="#">ME2381</a> Recitation for ME 2380 0 <a href="#">ENCP2000</a> Intro to Eng'g, Co-op 1 Elective General Elective 4	Vacation	Co-op
<b>Year 2 (BB)</b>	<a href="#">MATH2321</a> Calculus 3 for Engrs. 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="#">ME2350</a> Statics 4 <a href="#">ENCP2000</a> Intro to Eng'g, Co-op 1 Elective General Elective 4	Co-op	Co-op	Vacation
<b>Year 3 (AA)</b>	Co-op	<a href="#">ME2340</a> Material Science 4 <a href="#">ME2341</a> Lab for ME2340 1 <a href="#">ME3455</a> Dynamics 4 <a href="#">ME3456</a> Lab for ME3455 1 <a href="#">ME4508</a> ME Computation 4 <a href="#">*ENGW3302</a> Adv. Writing for Prof. 4	<a href="#">ME3475</a> Fluid Mech. 4 Elective General Elective 4	Co-op
<b>Year 3 (BB)</b>	<a href="#">MATH2341</a> Diff. Eq./ Lin. Alg. 4 <a href="#">ME2340</a> Material Science 4 <a href="#">ME2341</a> Lab for ME2340 1 <a href="#">ME2355</a> Mech. of Materials 4 <a href="#">ME2356</a> Lab for ME2355 1 <a href="#">ME2380</a> Thermodynamics 4 <a href="#">ME2381</a> Recitation for ME 2380 0	Co-op	Co-op	<a href="#">ME3475</a> Fluid Mech. 4 <a href="#">*ENGW3302</a> Adv. Writing for Prof. 4
<b>Year 4 (AA)</b>	Co-op	<a href="#">ME4505</a> Meas. Anal. Thermal 4 <a href="#">ME4506</a> Lab for ME4505 1 <a href="#">ME4555</a> Sys. Anal. & Control 4 <a href="#">ME4570</a> Ther. Sys. Anal. Design 4 <a href="#">ENCP3000</a> Prof. Issues In Eng'g 1 **Science/Math Elective 4	<a href="#">ME4550</a> ME Design 4 <a href="#">MEIE4701</a> Capstone Design 1 Elective General Elective 4	Co-op
<b>Year 4 (BB)</b>	<a href="#">ME3455</a> Dynamics 4 <a href="#">ME3456</a> Lab for ME3455 1 <a href="#">ME4505</a> Meas. Anal. Thermal 4 <a href="#">ME4506</a> Lab for ME4505 1 <a href="#">ME4508</a> ME Comp. 4 <a href="#">ME4570</a> Ther. Sys. Anal. Design 4	Co-op	Co-op	<a href="#">ME4550</a> ME Design 4 <a href="#">MEIE4701</a> Capstone 1 1 Elective General Elective 4
<b>Year 5 (AA)</b>	Co-op	<a href="#">MEIE4702</a> Capstone Design 2 5 Elective MIE Technical Elective 4 <a href="#">EECE2210</a> Elect. Engineering 4 <a href="#">EECE2211</a> Lab for EECE2210 1 Elective General Elective 4		
<b>Year 5 (BB)</b>	<a href="#">EECE2210</a> Elec. Engineering 4 <a href="#">EECE2211</a> Lab for EECE2210 1 <a href="#">ME4555</a> Syst. Analysis & Control 4 <a href="#">MEIE4702</a> Capstone Design 2 5 <a href="#">ENCP3000</a> Prof. Issues in Eng'g 1 Elective General Elective 4	Elective MIE Technical Elective 4 **Science/Math Elective 4 Elective General Elective 4 Elective General Elective 4		

Revised 4/1/2019

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

\*\* Science/Math Elective - Please consult with your academic advisor for the complete list of acceptable courses.

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.

MIE Technical Elective - 1 required - Any ME, IE or EMGT class that is not part of the Mechanical Engineering core curriculum.

Electives may be interchanged.

[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.