

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

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

	FALL	SPRING	SUMMER 1	SUMMER 2
<b>Year 1</b>	<a href="#">CHEM1151</a> General Chem. for Engrs. 4 <a href="#">CHEM1153</a> Recitation for CHEM1151 0 <a href="#">ENGW1111</a> First-Year Writing 4 <a href="#">GE1000</a> Intro to Eng'g. 1 <a href="#">GE 1501</a> Cornerstone Eng. 1 4 <a href="#">MATH1342</a> Calculus 2 for Engrs. 4	<a href="#">GE 1502</a> Cornerstone Eng. 2 4 <a href="#">MATH2321</a> Calculus 3 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 Elective General Elective 4	<a href="#">ME2350</a> Statics 4 Elective General Elective 4	Vacation
<b>Year 2 MC</b>	<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="#">PHYS1155</a> Physics 2 for Engrs. 3 <a href="#">PHYS1156</a> Physics 2 Lab 1 <a href="#">PHYS1157</a> ILS for PHYS1155 1 Elective General Elective 4	<a href="#">ENCP2000</a> Intro to Eng'g, Co-op 1 <a href="#">ME2340</a> Material Science 4 <a href="#">ME2341</a> Lab for ME2340 1 <a href="#">ME2380</a> Thermodynamics 4 <a href="#">ME2381</a> Recitation for ME 2380 0 <a href="#">ME3455</a> Dynamics 4 <a href="#">ME3456</a> Lab for ME3455 1 Elective General Elective 4	<a href="#">ME3475</a> Fluid Mech. 4 Elective General Elective 4	Co-op
<b>Year 2 MD</b>	<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="#">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="#">ENCP2000</a> Intro to Eng'g, Co-op 1	Co-op	Co-op	<a href="#">ME3475</a> Fluid Mech. 4 Elective General Elective 4
<b>Year 3 MC</b>	<a href="#">*ENGW3302</a> Adv Writing in the Tech Prof (to be taken online)  Co-op	<a href="#">EECE2210</a> Elect. Engineering 4 <a href="#">EECE2211</a> Lab for EECE2210 1 <a href="#">ENCP3000</a> Prof. Issues in Eng'g, 1 <a href="#">ME4505</a> Meas. Anal. Thermal 4 <a href="#">ME4506</a> Lab for ME4505 1 <a href="#">ME4555</a> Syst. Analysis & Control 4 <a href="#">ME4570</a> Ther. Sys. Anal. Design 4	<a href="#">ME4550</a> ME Design 4 <a href="#">MEIE4701</a> Capstone Design 1 1 Elective General Elective 4	Co-op
<b>Year 3 MD</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="#">ME4570</a> Ther. Sys. Anal. Design 4 Elective General Elective 4	<a href="#">*ENGW3302</a> Adv Writing in the Tech Prof (to be taken online)  Co-op	Co-op	<a href="#">ME4550</a> ME Design 4 <a href="#">MEIE4701</a> Capstone Design 1 1 Elective General Elective 4
<b>Year 4 MC</b>	Co-op	<a href="#">ME4508</a> ME Computation 4 <a href="#">MEIE4702</a> Capstone Design 2 5 Elective **Science/Math Elective 4 Elective MIE Technical Elective 4		
<b>Year 4 MD</b>	<a href="#">EECE2210</a> Elect. Engineering 4 <a href="#">EECE2211</a> Lab for EECE2210 1 <a href="#">ENCP3000</a> Prof. Issues in Eng'g, 1 <a href="#">ME4555</a> Syst. Analysis & Control 4 <a href="#">MEIE4702</a> Capstone Design 2 5 Elective General Elective 4	<a href="#">ME2340</a> Material Science 4 <a href="#">ME2341</a> Lab for ME2340 1 <a href="#">ME4508</a> ME Computation 4 Elective **Science/Math Elective 4 Elective MIE Technical Elective 4		

Revised 5/13/20

Students will need to have Advanced Standing Credit (such as AP, IB or college credit) for Math 1341 Calculus 1 - see advisor

\*ENGW3315 is an acceptable substitution.

\*\* 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), Differences and Diversity (DD) and Integration Experience (EX) are not explicitly satisfied by required engineering courses. Students are responsible for satisfying these requirements and should use General Electives to do so.

**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.](#)

Degree requirements can be found in the academic catalog and DARS provides a degree audit for students.