

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

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

	FALL	SPRING	SUMMER 1	SUMMER 2
<b>Year 1</b>	CHEM1151 General Chem. for Engrs. 4 CHEM1153 Recitation for CHEM1151 0 ENGW1111 College Writing 4 GE1000 Intro to Eng'g. 1 GE1501 Cornerstone Eng. 1 4 MATH1341 Calculus 1 for Engrs. 4	GE1502 Cornerstone Eng. 2 4 MATH1342 Calculus 2 for Engrs. 4 PHYS1151 Physics 1 Engrs. 3 PHYS1152 Physics 1 Lab 1 PHYS1153 ILS for PHYS1151 1 Elective General Elective 4	Vacation	Vacation
<b>Year 2 AA</b>	MATH2321 Calculus 3 for Engrs. 4 ME2350 Statics 4 PHYS1155 Physics 2 for Engrs. 3 PHYS1156 Physics 2 Lab 1 PHYS1157 ILS for PHYS1155 1 Elective General Elective 4	ENCP2000 Intro to Eng'g, Co-op 1 MATH2341 Diff. Eq./ Lin. Alg. 4 ME2355 Mech. of Materials 4 ME2356 Lab for ME2355 1 ME2380 Thermodynamics 4 ME2381 Recitation for ME 2380 0 Elective General Elective 4	Vacation	Co-op
<b>Year 2 BB</b>	ENCP2000 Intro to Eng'g, Co-op 1 MATH2321 Calculus 3 for Engrs. 4 ME2350 Statics 4 PHYS1155 Physics 2 for Engrs. 3 PHYS1156 Physics 2 Lab 1 PHYS1157 ILS for PHYS1155 1 Elective General Elective 4	Co-op	Co-op	Vacation
<b>Year 3 AA</b>	Co-op	*ENGW3302 Adv. Writing for Prof. 4 ME2340 Material Science 4 ME2341 Lab for ME2340 1 ME3455 Dynamics 4 ME3456 Lab for ME3455 1 ME4508 ME Computation 4	ME3475 Fluid Mech. 4 Elective General Elective 4	Co-op
<b>Year 3 BB</b>	MATH2341 Diff. Eq./ Lin. Alg. 4 ME2340 Material Science 4 ME2341 Lab for ME2340 1 ME2355 Mech. of Materials 4 ME2356 Lab for ME2355 1 ME2380 Thermodynamics 4 ME2381 Recitation for ME 2380 0	Co-op	Co-op	*ENGW3302 Adv. Writing for Prof. 4 ME3475 Fluid Mech. 4
<b>Year 4 AA</b>	Co-op	ENCP3000 Prof. Issues in Eng'g 1 ME4505 Meas. Anal. Thermal 4 ME4506 Lab for ME4505 1 ME4555 Sys. Anal. & Control 4 ME4570 Ther. Sys. Anal. Design 4 Elective **Science/Math Elective 4	ME4550 ME Design 4 MEIE4701 Capstone Design 1 1 Elective General Elective 4	Co-op
<b>Year 4 BB</b>	ME3455 Dynamics 4 ME3456 Lab for ME3455 1 ME4505 Meas. Anal. Thermal 4 ME4506 Lab for ME4505 1 ME4508 ME Computation 4 ME4570 Ther. Sys. Anal. Design 4	Co-op	Co-op	ME4550 ME Design 4 MEIE4701 Capstone Design 1 1 Elective General Elective 4
<b>Year 5 AA</b>	Co-op	EECE2210 Elect. Engineering 4 EECE2211 Lab for EECE2210 1 MEIE4702 Capstone Design 2 5 Elective MIE Technical Elective 4 Elective General Elective 4		
<b>Year 5 BB</b>	EECE2210 Elec. Engineering 4 EECE2211 Lab for EECE2210 1 ENCP3000 Prof. Issues in Eng'g 1 ME4555 Syst. Analysis & Control 4 MEIE4702 Capstone Design 2 5 Elective General Elective 4	Elective MIE Technical Elective 4 Elective **Science/Math Elective 4 Elective General Elective 4 Elective General Elective 4		

Revised 5/13/20

\*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.