

COMBINED MAJOR IN MECHANICAL ENGINEERING and DESIGN
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
Year 1	CHEM1151 General Chem. for Engrs. 4 CHEM1153 Recitation for CHEM1151 0 ENGW1111 College Writing 4 GE1000 Intro to Eng'g. 1 _or ARTF1000 Art and Design at NU 1 GE 1501 Cornerstone Eng. 1 4 MATH1342 Calculus 2 for Engrs. 4	ARTF 1122 2D Fund. Surface&Drawing 4 GE 1502 Cornerstone Eng. 2 4 MATH2321 Calculus 3 for Engrs. 4 PHYS1151 Physics 1 Engrs. 3 PHYS1152 Physics 1 Lab 1 PHYS1153 ILS for PHYS1151 1	Vacation	Vacation
Year 2 AA	ARTG 1250 Design Proc. Context & Sys 4 ME2350 Statics 4 PHYS1155 Physics 2 for Engrs. 3 PHYS1156 Physics 2 Lab 1 PHYS1157 ILS for PHYS1155 4 General Elective (NU Path DD) 4	ART Art + Design Fund. 4 ENCP2000 Intro to Eng'g, Co-op 1 MATH2341 Diff. Eq./Lin. Alg. 4 ME2340 Material Science 4 ME2341 Lab for ME2340 1 ME2380 Thermodynamics 4 ME2381 Recitation for ME 2380 0	Vacation	Co-op
Year 2 BB	ARTG 1250 Design Proc. Context & Sys 4 ENCP2000 Intro to Eng'g, Co-op 1 ME2350 Statics 4 ME2380 Thermodynamics 4 ME2381 Recitation for ME 2380 0 PHYS1155 Physics 2 for Engrs. 3 PHYS1156 Physics 2 Lab 1 PHYS1157 ILS for PHYS1155 1	Co-op	Co-op	ARTG 2250 Typography 4 ME3475 Fluid Mech. 4
Year 3 AA	Co-op	ENCP3000 Prof. Issues In Eng'g 1 *ENGW3302 Adv. Writing in the Tech for Prof 4 ME2355 Mech. of Materials 4 ME2356 Lab for ME2355 1 ME3455 Dynamics 4 ME3456 Lab for ME3455 1 ART Design Option 4	ARTG 2250 Typography 4 ME3475 Fluid Mech. 4 _or ME3480 Int. App of Fluid Mechanics 4	Co-op
Year 3 BB	MATH2341 Diff. Eq./ Lin. Alg. 4 ME2355 Mech. of Materials 4 ME2356 Lab for ME2355 1 ME **Engineering Tech Elective 4 ART Design Option 4	Co-op	Co-op	General Elective (NU Path DD) 4
Year 4 AA	Co-op	ME4505 Meas. Anal. Thermal 4 ME4506 Lab for ME4505 1 ME **Engineering Tech Elective 4 ART Art + Design History Elective 4 ART Design Option 4	MEIE4701 Capstone Design 1 1 ME **Engineering Tech Elective 4 ART Art + Design Elective 4	Co-op
Year 4 BB	ME2340 Material Science 4 ME2341 Lab for ME2340 1 ME3455 Dynamics 4 ME3456 Lab for ME3455 1 ME4505 Meas. Anal. Thermal 4 ME4506 Lab for ME4505 1 ART Art + Design History Elective 4	Co-op	Co-op	MEIE4701 Capstone Design 1 1 ME **Engineering Tech Elective 4
Year 5 AA	Co-op	MEIE4702 Capstone Design 2 5 ME **Engineering Tech Elective 4 ART Design Elective 4 ART Design Elective 4		
Year 5 BB	MEIE4702 Capstone Design 2 5 ART Design Elective 4 ART Design Elective 4 ART Art + Design Fund. 4	ENCP3000 Prof. Issues In Eng'g 1 *ENGW3302 Adv. Writing in the Tech for Prof 4 ART Design Option 4 ART Art + Design Elective 4 ME **Engineering Tech 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.

**Engineering tech electives will be selected from this list: ME4508, ME4550, ME4555, ME4570

Art + Design Fundamentals: Complete one of the following: ARTF 1121, ARTF 1124, ARTF 2220, ARTF 2223

Art and Design History elective: Complete any one ARTH course. The following satisfy NUPath IC and SI: 1110, 1111, 2210

Design elective: Complete 2 ARTG elective courses (at least one at 3xxx-level or higher)

Art + Design elective: Complete any one ARTG, ARTE, ARTD, ARTH, ARTS course as long as prerequisites are met

Design option: Complete one of the following design options: Interaction Design Option (ARTG 2400 and ARTG 3700), or Graphic and Information Design Option (ARTG 2252 and ARTG 3450), or Experience Design Option (ARTG 3462 and ARTG 3463)

Science/Math Elective - Please consult with your academic advisor for the complete list of acceptable 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 :

[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.