

**COMBINED MAJOR IN MECHANICAL ENGINEERING and DESIGN
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 |
|--------------|---|---|---|---|
| Year 1 | CHEM1151 General Chem. for Engrs. 4 CHEM1153 Recitation for CHEM1151 0 ENGW1111 College Writing 1 GE1000 Intro to Eng'g. 1 _or ARTF1000 Art and Design at NU 1 GE1501 Cornerstone Eng. 1 MATH1342 Calculus 2 for Engrs. 4 | ARTF1122 2D Fund. Surface&Drawing 4 GE1502 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 | ME2350 Statics 4 Art + Design Fund. 4 | Vacation |
| Year 2 MC | ARTG1250 Design Proc. Context & Sys 4 MATH2341 Diff. Eq./ Lin. Alg. 4 ME2340 Material Science 4 ME2341 Lab for ME2340 1 PHYS1155 Physics 2 for Engrs. 3 PHYS1156 Physics 2 Lab 1 PHYS1157 ILS for PHYS1155 1 | ENCP2000 Intro to Eng'g, Co-op 1 ME2355 Mech. of Materials 4 ME2356 Lab for ME2355 1 ME2380 Thermodynamics 4 ME2381 Recitation for ME 2380 0 ME3455 Dynamics 4 ME3456 Lab for ME3455 1 ART Design Option 4 | ARTG2250 Typography 4 ME3475 Fluid Mech. 4 | Co-op |
| Year 2 MD | 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 PHYS1155 Physics 2 for Engrs. 3 PHYS1156 Physics 2 Lab 1 PHYS1157 ILS for PHYS1155 1 | General Elective (NU Path DD) <i>(to be taken online)</i> 4 Co-op | Co-op | ARTG2250 Typography 4 ME3475 Fluid Mech. 4 |
| Year 3 MC | *ENGW3302 Adv Writing in the Tech Prof <i>(to be taken online)</i> 4 Co-op | ENCP3000 Prof. Issues in Eng'g, 1 ME4505 Meas. Anal. Thermal 4 ME4506 Lab for ME4505 4 ART Design Option 4 ART Art + Design History Elective 4 ME **Engineering Tech Elective 4 | MEIE4701 Capstone Design 1 1 ME **Engineering Tech Elective 4 ART Art + Design Elective 4 | Co-op |
| Year 3 MD | ME4505 Meas. Anal. Thermal 4 ME4506 Lab for ME4505 1 ME3455 Dynamics 4 ME3456 Lab for ME3455 1 ART Design Option 4 ART Art + Design History Elective 4 | *ENGW3302 Adv Writing in the Tech Prof <i>(to be taken online)</i> 4 Co-op | Co-op | MEIE4701 Capstone Design 1 1 ME **Engineering Tech Elective 4 ART Art + Design Elective 4 |
| Year 4 MC | General Elective (NU Path DD) <i>(to be taken online)</i> 4 Co-op | MEIE4702 Capstone Design 2 5 ME **Engineering Tech Elective 4 ART Design Elective 4 ART Design Elective 4 | | |
| Year 4 MD | ARTG1250 Design Proc. Context & Sys 4 ENCP3000 Prof. Issues in Eng'g, 1 MEIE4702 Capstone Design 2 5 ME **Engineering Tech Elective 4 ME **Engineering Tech Elective 4 ART Design Option 4 ART Design Elective 4 | ME2340 Material Science 4 ME2341 Lab for ME2340 1 ME **Engineering Tech Elective 4 ART Design Option 4 ART Design 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.