

**BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING - 4 Year 2 Co-op Plan  
CURRICULUM OUTLINE - CLASS OF 2014, 2015, 2016**

	FALL	SPRING	SUMMER 1	SUMMER 2
<b>Year 1</b>	MATH1341 Calculus 1 for Engrs. 4 CHEM1151 General Chem. for Engrs. 4 CHEM1153 Recitation for CHEM1151 0 GE1000 Intro to Eng'g. 1 GE1110 Eng'g. Design 4 NU CORE Arts or Humanities Lvl. 1 4	MATH1342 Calculus 2 for Engrs. 4 PHYS1151 Physics 1 Engrs. 3 PHYS1152 Physics 1 Lab 1 PHYS1153 ILS for PHYS1151 1 GE1111 Eng'g. Prob. Solv. & Comp. 4 ENGL1111 College Writing 4	Vacation	Vacation
<b>Year 2 MC</b>	MATH2321 Calculus 3 for Engrs. 4 BIOL1115 Biology 4 BIOL1116 Lab for BIOL1115 1 PHYS1155 Physics 2 for Engrs. 3 PHYS1156 Physics 2 Lab 1 PHYS1157 ILS for PHYS1155 1 ME2350 Eng'g Mech & Design 4	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 MEIE2000 Intro to Eng'g, Co-op 1	ME3475 Fluid Mech. 4 Elective General Elective 1 4	Co-op
<b>Year 2 MD</b>	MATH2321 Calculus 3 for Engrs. 4 BIOL1115 Biology 4 BIOL1116 Lab for BIOL1115 1 PHYS1155 Physics 2 for Engrs. 3 PHYS1156 Physics 2 Lab 1 PHYS1157 ILS for PHYS1155 1 ME2350 Eng'g, Mech. & Design 4 MEIE2000 Intro to Eng'g, Co-op 1	Co-op	Co-op	MATH2341 Diff. Eq./ Lin. Alg. 4 NU CORE Social Science Lvl. 1 4
<b>Year 3 MC</b>	Co-op	ME3455 Dynamics & Vib. 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 MEIE3000 Prof. Issues In Eng'g, 1	ME4550 ME Design 4 MEIE4701 Capstone Design 1 NU CORE Social Science Lvl. 1 4	Co-op
<b>Year 3 MD</b>	ME2340 Material Science 4 ME2341 Lab for ME2340 1 ME2355 Mech. of Materials 4 ME2356 Lab for ME2355 1 ME2380 Thermodynamics 4 ME3455 Dyn. & Vibration 4 ME3456 Lab for ME3455 1	Co-op	Co-op	ME3475 Fluid Mech. 4 ME4550 ME Design 4 MEIE4701 Capstone 1 1
<b>Year 4 MC</b>	Co-op	EECE2210 Elect. Engineering 4 EECE2211 Lab for EECE2210 1 ME4555 Sys. Anal. & Control 4 MEIE4702 Capstone Design 2 5 Elective MIE Technical Elective 4	Must meet with academic advisor to determine scheduling of these courses.	
<b>Year 4 MD</b>	ME4505 Meas. Anal. Thermal 4 ME4506 Lab for ME4505 1 ME4508 ME Comp. 4 ME4555 Syst. Analysis & Control 4 ME4570 Ther. Sys. Anal. Design 4 MEIE3000 Prof. Issues in Eng'g, 1	EECE2210 Elect. Engineering 4 EECE2211 Lab for EECE2210 1 MEIE4702 Capstone Design 2 5 Elective MIE Technical Elective 4 Elective General Elective 1 4	Elective General Elective 2 4 Elective General Elective 3 4 Elective General Elective 4 4 *ENGL3302 Advanced Writing 4	

Revised 3/19/2012

\* ENGL3301 is an acceptable substitution for engineering majors.

NU Core Elective Requirements: 2 required- (one Arts Lvl 1 OR one Humanities Lvl 1) AND (one Social Science Lvl 1)

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

General Electives: 4 required - Any 4 SH course that is not remedial or repetitive.

Electives may be interchanged. Please consult with your advisor :

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