

## BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING

### CURRICULUM OUTLINE - CLASS OF 2019, 2020

Sample Only – Actual Curriculum Sequence May Deviate from Sample

	FALL	SPRING	SUMMER 1	SUMMER 2
Freshman Year 1	<a href="#">MATH1341</a> Calculus 1 for Engrs. 4	<a href="#">MATH1342</a> Calculus 2 for Engrs. 4	Vacation	Vacation
	<a href="#">CHEM1151</a> General Chem. for Engrs. 4	<a href="#">PHYS1151</a> Physics 1 Engrs. 3		
	<a href="#">CHEM1153</a> Recitation for CHEM1151 0	<a href="#">PHYS1152</a> Physics 1 Lab 1		
	<a href="#">GE1000</a> Intro to Eng'g. 1	<a href="#">PHYS1153</a> ILS for PHYS1151 1		
	<a href="#">GE1110</a> Eng'g. Design 4	<a href="#">GE1111</a> Eng'g. Prob. Solv. & Comp. 4		
	<a href="#">NU CORE</a> Arts or Humanities Lvl. 1 4	<a href="#">ENGW1111</a> College Writing 4		
Year 2 (AA)	<a href="#">MATH2321</a> Calculus 3 for Engrs. 4	<a href="#">MATH2341</a> Diff. Eq./ Lin. Alg. 4	Vacation	Co-op
	<a href="#">BIOL1115</a> Biology 4	<a href="#">ME2355</a> Mech. of Materials 4		
	<a href="#">BIOL1116</a> Lab for BIOL1115 1	<a href="#">ME2356</a> Lab for ME2355 1		
	<a href="#">PHYS1155</a> Physics 2 for Engrs. 3	<a href="#">ME2380</a> Thermodynamics 4		
	<a href="#">PHYS1156</a> Physics 2 Lab 1	<a href="#">MEIE2000</a> Intro to Eng'g, Co-op 1		
	<a href="#">PHYS1157</a> ILS for PHYS1155 1	<a href="#">NU CORE</a> Social Science Lvl. 1 4		
	<a href="#">ME2350</a> Eng'g Mech & Design 4			
Year 2 (BB)	<a href="#">MATH2321</a> Calculus 3 for Engrs. 4	Co-op	Co-op	Vacation
	<a href="#">BIOL1115</a> Biology 4			
	<a href="#">BIOL1116</a> Lab for BIOL1115 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			
	<a href="#">ME2350</a> Eng'g, Mech. & Design 4			
<a href="#">MEIE2000</a> Intro to Eng'g, Co-op 1				
Year 3 (AA)	Co-op	<a href="#">ME2340</a> Material Science 4	<a href="#">ME3475</a> Fluid Mech. 4	Co-op
		<a href="#">ME2341</a> Lab for ME2340 1	Elective General Elective 1 4	
		<a href="#">ME3455</a> Dynamics & Vib. 4		
		<a href="#">ME3456</a> Lab for ME3455 1		
		<a href="#">ME4508</a> ME Computation 4		
	<a href="#">*ENGW3302</a> Adv. Writing for Prof. 4			
Year 3 (BB)	<a href="#">MATH2341</a> Diff. Eq./ Lin. Alg. 4	Co-op	Co-op	<a href="#">ME3475</a> Fluid Mech. 4
	<a href="#">ME2340</a> Material Science 4			<a href="#">*ENGW3302</a> Adv. Writing for Prof. 4
	<a href="#">ME2341</a> Lab for ME2340 1			
	<a href="#">ME2355</a> Mech. of Materials 4			
	<a href="#">ME2356</a> Lab for ME2355 1			
	<a href="#">ME2380</a> Thermodynamics 4			
Year 4 (AA)	Co-op	<a href="#">ME4505</a> Meas. Anal. Thermal 4	<a href="#">ME4550</a> ME Design 4	Co-op
		<a href="#">ME4506</a> Lab for ME4505 1	<a href="#">MEIE4701</a> Capstone Design 1	
		<a href="#">ME4555</a> Sys. Anal. & Control 4	Elective General Elective 3 4	
		<a href="#">ME4570</a> Ther. Sys. Anal. Design 4		
		<a href="#">MEIE3000</a> Prof. Issues In Eng'g, 1		
		Elective General Elective 2 4		
Year 4 (BB)	<a href="#">ME3455</a> Dyn. & Vibration 4	Co-op	Co-op	<a href="#">ME4550</a> ME Design 4
	<a href="#">ME3456</a> Lab for ME3455 1			<a href="#">MEIE4701</a> Capstone 1 1
	<a href="#">ME4505</a> Meas. Anal. Thermal 4			<a href="#">NU CORE</a> Social Science Lvl. 1 4
	<a href="#">ME4506</a> Lab for ME4505 1			
	<a href="#">ME4508</a> ME Comp. 4			
	<a href="#">ME4570</a> Ther. Sys. Anal. Design 4			
<a href="#">MEIE3000</a> Prof. Issues in Eng'g, 1				
Year 5 (AA)	Co-op	<a href="#">MEIE4702</a> Capstone Design 2 5	Co-op	Co-op
		Elective MIE Technical Elective 4		
		<a href="#">EECE2210</a> Elect. Engineering 4		
		<a href="#">EECE2211</a> Lab for EECE2210 1		
	Elective General Elective 4 4			
Year 5 (BB)	<a href="#">EECE2210</a> Elec. Engineering 4	Elective MIE Technical Elective 4	Co-op	Co-op
	<a href="#">EECE2211</a> Lab for EECE2210 1	Elective General Elective 2 4		
	<a href="#">ME4555</a> Syst. Analysis & Control 4	Elective General Elective 3 4		
	<a href="#">MEIE4702</a> Capstone Design 2 5	Elective General Elective 4 4		
	Elective General Elective 1 4			

Revised 4/6/2015

[\\* ENG3315](#) is an acceptable substitution for engineering majors.

English course prefixes have changed from ENGL to ENG. ENG1111 is equivalent to ENGL1111. ENG3302 is equivalent to ENGL3302. Effective Fall 2014, the ENG 3301 course number will be retired. Students may take ENG 3302 or ENG 3315 to fulfill their Advanced Writing in the Technical Professions requirement. ENG 3301 will still count towards the Advanced Writing in the Technical Professions requirement if the course was taken prior to Fall 2014.

**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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The registrar's website provides a listing of degree requirements and the DARS system provides a degree audit utility for students.