

**BS IN INDUSTRIAL ENG'G./MS IN ENG'G. MANAGEMENT
CURRICULUM OUTLINE - CLASS OF 2020**

Sample Only – Actual Curriculum Sequence May Deviate from Sample

	FALL	SPRING	SUMMER 1	SUMMER 2
Freshman Year 1	CHEM1151 General Chem. for Engrs. 4	MATH1342 Calculus 2 for Engrs. 4	Vacation	Vacation
	CHEM1153 Recitation for CHEM1151 0	ENGW1111 College Writing 4		
	GE1000 Intro to Eng'g. 1	GE1111 Eng'g. Prob. Solv.& Comp. 4		
	GE1110 Eng'g. Design 4	PHYS1151 Physics 1 Engrs. 3		
	MATH1341 Calculus 1 for Engrs. 4	PHYS1152 Physics 1 Lab 1		
NU Core Arts or Humanities Lvl. 1 4	PHYS1153 ILS for PHYS1151 1			
Year 2 AA	IE2310 Intro Ind. Eng'g 4	IE3412 Eng'g Prob. Stat. 4	Vacation	Co-op
	IE2311 Recitation for IE2310 0	IE4512 Eng'g Economy 4		
	IE3425 Eng'g Database 4	MATH2341 Diff. Eq./ Lin. Alg. 4		
	IE3426 Recitation for IE3425 0	MEIE2000 Intro to Eng'g, Co-op 1		
	MATH2321 Calculus 3 for Engrs. 4	NU Core Social Science Lvl. 1 4		
***Elective Science Elective 5				
Year 2 BA	IE2310 Intro Ind. Eng'g 4	Co-op	Co-op	Vacation
	IE2311 Recitation for IE2310 0			
	IE3425 Eng'g Database 4			
	IE3426 Recitation for IE3425 0			
	MATH2321 Calculus 3 for Engrs. 4			
MEIE2000 Intro to Eng'g, Co-op 1				
***Elective Science Elective 5				
Year 3 AA	Co-op	IE4510 Simulation Mod. & An. 4	Vacation	Co-op
		IE4515 Operations Research 4		
		IE4516 Quality Assurance 4		
		Elective Technical Elective 1 4		
Year 3 BA	*IE3412 Eng'g Prob. Stat. 4	Co-op	Co-op	**ENGW330; Adv. Writing for Prof. 4
	IE4512 Eng'g Economy 4			Elective General Elective 4
	MATH2341 Diff. Eq./ Lin. Alg. 4			
	Elective Technical Elective 1 4			
Year 4 AA	Co-op	EMGT6225 Economic Dec. Making 4	MEIE4701 Capstone Design 1 1	**ENGW330; Adv. Writing for Prof. 4
		IE4520 Stochastic Modeling 4	Graduate Course 4	Graduate Course 4
		IE4525 Logistics & Supply Chain 4	Elective General Elective 4	
		MEIE3000 Prof. Issues in Eng'g, 1		
		2-Graduate Course 4		
Year 4 BA	IE4510 Simulation Mod. & An. 4	EMGT6225 Economic Dec. Making 4	*Graduate Course 4	*Graduate Course 4
	IE4515 Operations Research 4	2-Graduate Course 4		
	IE4516 Quality Assurance 4	Elective Social Science Lvl. 1 4		
	MEIE3000 Prof. Issues in Eng'g, 1	IE4530 Mfg. Sys. & Techniques 4		
	Elective Technical Elective 2 4	IE4531 Lab for IE4530 1		
Year 5 AA	MEIE6850 Research Seminar 0	EMGT5220 Eng'g. Project Mgmt. 4		
	OR 6205 Deterministic Oper. Res. 4	IE4522 Human Machine Systems 4		
	Elective Technical Elective 2 4	IE4523 Lab for IE4522 1		
	IE4530 Mfg. Sys. & Techniques 4	MEIE4702 Capstone Design 2 5		
	IE4531 Lab for IE4530 1	Graduate Course 4		
3-Graduate Course 4				
Year 5 BA	IE4520 Stochastic Modeling 4	EMGT5220 Eng'g. Project Mgmt. 4		
	IE4525 Logistics & Supply Chain 4	IE4522 Human Machine Systems 4		
	MEIE4701 Capstone Design 1 1	IE4523 Lab for IE4522 1		
	MEIE6850 Research Seminar 0	MEIE4702 Capstone Design 2 5		
	OR 6205 Deterministic Oper. Res. 4	Graduate Course 4		
3-Graduate Course 4				

3/10/2015
2/8/2017
4/10/2017

** ENGW3315 is an acceptable substitution for engineering majors.

2- Students who received a grade less than B+ in IE3412 must take IE6200 instead of a graduate elective.

3- Students may replace 8 SH of graduate coursework in the senior year with a Thesis, or 4 SH with a Project.

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

General Elective: 1 required- any 4 SH course that is not repetitive or remedial.

Engineering Technical Electives: 2 required - any course from the following disciplines that is not a required course in the IE curriculum: IE, ME, MEIE, EMGT, OR, EECE, CIVE, CHME or CSYE

Electives may be interchanged. Please consult with your advisor : Joy Erb - 220 Snell, 617-373-2154, j.erb@neu.edu

Notes:

Students will be required to meet with an undergraduate advisor to petition to enter the program.

Students are encouraged to meet with their financial aid counselor to review any financial questions.

4 semesters of coursework at Northeastern University must be completed with a minimum GPA of 3.2 to join the BS/MS program.

*Students can submit "Petition for a Reduced Course Load" to be billed per credit.

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

***Science Elective

Complete one of the following:

PHYS 1155 Physics for Engineering 1 and PHYS 1156 Lab for PHYS 1155 and PHYS 1157 Interactive Learning Seminar for PHYS 1155
CHEM 1214 General Chemistry 2 and CHEM 1215 Lab for CHEM 1214 and CHEM 1216 Recitation for CHEM 1214
CHEM 2311 Organic Chemistry 1 and CHEM 2312 Lab for CHEM 2311 and CHEM 2319 Recitation for CHEM 2311
BIOL 1115 General Biology 1 for Engineers and BIOL 1116 Lab for BIOL 1115
BIOL 1117 Integrated Anatomy and Physiology 1 and BIOL 1118 Lab for BIOL 1117