

**BACHELOR OF SCIENCE IN INDUSTRIAL ENGINEERING
PATTERN OF ATTENDANCE - CLASS OF 2019**

Sample Only – Actual Curriculum Sequence May Deviate from Sample

	FALL	SPRING	SUMMER 1	SUMMER 2
Freshman Year 1	MATH1341 Calculus 1 for Engrs. 4	MATH1342 Calculus 2 for Engrs. 4	Vacation	Vacation
	CHEM1151 General Chem. for Engrs. 4	PHYS1151 Physics 1 Engrs. 3		
	CHEM1153 Recitation for CHEM1151 0	PHYS1152 Physics 1 Lab 1		
	GE1000 Intro to Eng'g. 1	PHYS1153 ILS for PHYS1151 1		
	GE1110 Eng'g. Design 4	GE1111 Eng'g. Prob. Solv.& Comp. 4		
NU CORE Arts or Humanities Lvl. 1 4	ENGW1111 College Writing 4			
Year 2 AA	MATH2321 Calculus 3 for Engrs. 4	MATH2341 Diff. Eq./ Lin. Alg. 4	Vacation	Co-op
	IE2310 Intro Ind. Eng'g 4	*IE3412 Eng'g Prob. Stat. 4		
	IE2311 Recitation for IE2310 0	IE4512 Eng'g Economy 4		
	IE3425 Eng'g Database 4	Elective General Elective 1 4		
	IE3426 Recitation for IE3425 0	MEIE2000 Intro to Eng'g, Co-op 1		
***Elective Science Elective 5				
Year 2 BA	MATH2321 Calculus 3 for Engrs. 4	Co-op	Co-op	Vacation
	IE2310 Intro Ind. Eng'g 4			
	IE2311 Recitation for IE2310 0			
	IE3425 Eng'g Database 4			
	IE3426 Recitation for IE3425 0			
***Elective Science Elective 5				
MEIE2000 Intro to Eng'g, Co-op 1				
Year 3 AA	Co-op	IE4516 Quality Assurance 4	Elective General Elective 2 4	Co-op
		IE4515 Operations Research 4	Elective General Elective 3 4	
		IE4510 Simulation Mod. & An. 4		
		**ENGW3302 Adv. Writing for Prof. 4		
Year 3 BA	MATH2341 Diff. Eq./ Lin. Alg. 4	Co-op	Co-op	IE4530 Mfg. Sys. & Techniques 4
	*IE3412 Eng'g Prob. Stat. 4			IE4531 Lab for IE4530 1
	IE4512 Eng'g Economy 4			NU CORE Social Science Lvl. 1 4
	**ENGW3302 Adv. Writing for Prof. 4			
Year 4 AA	Co-op	IE4525 Logistics & Supply Chain 4	Elective General Elective 4 4	Co-op
		IE4520 Stochastic Modeling 4	NU CORE Social Science Lvl. 1 4	
		IE4530 Mfg. Sys. & Techniques 4	MEIE4701 Capstone Design 1 1	
		IE4531 Lab for IE4530 1		
		Elective Technical Elective 1 4		
MEIE3000 Prof. Issues In Eng'g, 1				
Year 4 BA	IE4516 Quality Assurance 4	Co-op	Co-op	Elective General Elective 2 4
	IE4515 Operations Research 4			Elective General Elective 3 4
	IE4510 Simulation Mod. & An. 4			
	Elective General Elective 1 4			
MEIE3000 Prof. Issues in Eng'g, 1				
Year 5 AA	Co-op	MEIE4702 Capstone Design 2 5		
		IE4522 Human Machine Systems 4		
		IE4523 Lab for IE4522 1		
		Elective Technical Elective 2 4		
		Elective General Electives 5 4		
Year 5 BA	IE4525 Logistics & Supply Chain 4	MEIE4702 Capstone Design 2 5		
	IE4520 Stochastic Modeling 4	IE4522 Human Machine Systems 4		
	Elective Technical Elective 1 4	IE4523 Lab for IE4522 1		
	Elective General Elective 4 4	Elective Technical Elective 2 4		
	MEIE4701 Capstone Design 1 1	Elective General Elective 5 4		

[*MATH3081](#) is an acceptable substitution for IE3412. The substitution is recommended for students minoring in Mathematics.

[**ENGW3315](#) is an acceptable substitution for engineering majors.

3/10/2015

2/3/2017

4/10/2017

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

Engineering Technical Elective - 2 required - Any IE, ME, MEIE, EMGT, OR, EECE, CIVE, or CHME that is not part of the Industrial Engineering core curriculum.

General Electives: 5 required - Any 4 SH course that is not remedial or repetitive.

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

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