

BACHELOR OF SCIENCE IN INDUSTRIAL ENGINEERING 4 YEAR 2 CO-OP PROGRAM
PATTERN OF ATTENDANCE - CLASS OF 2018
PATTERN MD

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	School *	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 MD	MATH2321	Calculus 3 for Engrs.	4	Co-op	Co-op	MATH2341	Diff. Eq./Lin. Alg.	4
	IE2310	Intro Ind. Eng'g	4			MATH3081	Prob. & Stat.	4
	IE2311	Recitation for IE2310	0					
	IE3425	Eng'g Database	4					
	IE3426	Recitation for IE3425	0					
	IE4512	Eng'g Economy	4					
Year 3 MD	MEIE2000	Intro to Eng'g, Co-op	1	Co-op	Co-op	IE4530	Mfg. Sys. & Techniques	4
	***Elective	Science Elective	5			IE4531	Lab for IE4530	1
	Elective	General Elective 1	4			**ENGW3302	Adv. Writing for Prof.	4
	Elective	General Elective 2	4					
	Elective	Technical Elective 1	4					
Year 4 MD	MEIE3000	Prof. Issues in Eng'g,	1	MEIE4702	Capstone Design 2	5		
	IE4516	Quality Assurance	4	IE4522	Human Machine Systems	4		
	IE4515	Operations Research	4	IE4523	Lab for IE4522	1		
	IE4510	Simulation Mod. & An.	4	IE4520	Stochastic Modeling	4		
	Elective	General Elective 3	4	IE4525	Logistics & Supply Chain	4		
	MEIE4701	Capstone Design 1	1					

10/21/2015
3/28/2016
4/10/2017

You will meet with an academic advisor to determine scheduling of these required classes:

General Elective 4	4
Social Science Lvl. 1	4
Technical Elective 2	4
General Elective 5	4

* Course selection will be determined in consultation with your first-year advisor. Students are encouraged to use AP credit and transfer credits obtained prior to coming to Northeastern to take advantage of the 4-year, 2 coop program.

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