

**BACHELOR OF SCIENCE IN INDUSTRIAL ENGINEERING - 4 YEAR 2 CO-OP PROGRAM
PATTERN OF ATTENDANCE - CLASS OF 2020**

Sample Only – Actual Curriculum Sequence May Deviate from Sample

	FALL			SPRING			SUMMER 1			SUMMER 2			
Freshman Year 1	MATH1342	Calculus 2 for Engrs.	4	MATH2321	Calculus 3 for Engrs.	4	Elective	General Elective	4	Vacation			
	CHEM1151	General Chem. for Engrs.	4	PHYS1151	Physics 1 Engrs.	3	Elective	General Elective	4				
	CHEM1153	Recitation for CHEM1151	0	PHYS1152	Physics 1 Lab	1							
	GE1000	Intro to Eng'g.	1	PHYS1153	ILS for PHYS1151	1							
	GE1501	Cornerstone Eng. 1	4	GE1502	Cornerstone Eng. 2	4							
	ENGW1111	College Writing	4	Elective	General Elective	4							
Year 2 AA	MATH2341	Diff. Eq./ Lin. Alg.	4	*IE3412	Eng'g Prob. Stat.	4	Elective	General Elective	4	Co-op			
	IE2310	Intro Ind. Eng'g	4	IE4512	Eng'g Economy	4	Elective	General Elective	4				
	IE2311	Recitation for IE2310	0	MEIE2000	Intro to Eng'g, Co-op	1							
	IE3425	Eng'g Database	4	Elective	General Elective	4							
	IE3426	Recitation for IE3425	0	Elective	General Elective	4							
	***Elective	Science Elective	5										
Year 2 BA	MATH2341	Diff. Eq./ Lin. Alg.	4	Co-op			Co-op			Elective	General Elective	4	
	IE2310	Intro Ind. Eng'g	4							* MATH3081	Prob. And Stat.	4	
	IE2311	Recitation for IE2310	0										
	IE3425	Eng'g Database	4										
	IE3426	Recitation for IE3425	0										
	***Elective	Science Elective	5										
Year 3 AA	ENGW3302	Adv Writing in the Tech Prof <i>(to be taken online)</i>	4	IE4516	Quality Assurance	4	Elective	Technical Elective 1	4	Co-op			
	Co-op	IE4515	Operations Research	4	IE4510	Simulation Mod. & An.	4	Elective	Technical Elective 2				4
		IE4530	Mfg. Sys. & Techniques	4	MEIE4701	Capstone Design 1	1						
		IE4531	Lab for IE4530	1									
		MEIE3000	Prof. Issues In Eng'g,	1									
Year 3 BA		IE4516	Quality Assurance	4	ENGW3302	Adv Writing in the Tech Prof <i>(to be taken online)</i>	4	Co-op			Elective	General Elective	4
	IE4515	Operations Research	4				Elective				General Elective	4	
	IE4510	Simulation Mod. & An.	4										
	IE4530	Mfg. Sys. & Techniques	4										
	IE4531	Lab for IE4530	1										
	MEIE3000	Prof. Issues in Eng'g,	1										
Year 4 AA	Co-op			MEIE4702	Capstone Design 2	5							
				IE4520	Stochastic Modeling	4							
				IE4522	Human Machine Systems	4							
				IE4523	Lab for IE4522	1							
				IE4525	Logistics & Supply Chain	4							
Year 4 BA	IE4512	Eng'g Economy	4	MEIE4702	Capstone Design 2	5							
	IE4520	Stochastic Modeling	4	IE4522	Human Machine Systems	4							
	IE4525	Logistics & Supply Chain	4	IE4523	Lab for IE4522	1							
	Elective	Technical Elective 1	4	Elective	Technical Elective 2	4							
	MEIE4701	Capstone Design 1	1	Elective	General Elective	4							

5/24/2016
11/1/2016
2/3/2017
4/10/2017

You will need to have AP credit for Calc. AB (MATH1341 - Calculus 1 - 4 SH) - see advisor

* 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.

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

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

NUpath Requirements through General Electives- NUpath requirements, **Interpreting Culture (IC), Societies and Institutions (SI) and Differences and Diversity (DD)** are not explicitly satisfied by required engineering courses. Students are responsible for satisfying these requirements, and if these are not fulfilled in engineering courses, should use General Electives to do so. General Electives are academic, non-remedial, non-repetitive courses.

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: 7 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