

**BACHELOR OF SCIENCE IN INDUSTRIAL ENGINEERING - 4 YEAR 2 CO-OP PROGRAM  
PATTERN OF ATTENDANCE - CLASS OF 2021**

*Sample Only – Actual Curriculum Sequence May Deviate from Sample*

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

5/24/2016  
11/1/2016  
2/3/2017  
4/10/2017  
7/13/2017

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