

**BACHELOR OF SCIENCE IN INDUSTRIAL ENGINEERING
CURRICULUM OUTLINE - CLASS OF 2018
PATTERN: AA**

Sample Only – Actual Curriculum Sequence May Deviate from Sample

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

8/1/2013

2/6/2014

4/14/2014

4/10/2017

*** ENG3315** is an acceptable substitution for engineering majors.

English course prefixes have changed from ENGL to ENG. ENG1111 is equivalent to ENGL1111. ENG3302 is equivalent to ENGL3302. Effective Fall 2014, the ENG 3301 course number will be retired. Students may take ENG 3302 or ENG 3315 to fulfill their Advanced Writing in the Technical Professions requirement. ENG 3301 will still count towards the Advanced Writing in the Technical Professions requirement if the course was taken prior to Fall 2014.

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

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

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 or CHME

Electives may be interchanged. Please consult with your advisor: Joy Erb, 2205N, 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