

**BS/MS IN INDUSTRIAL ENGINEERING  
CURRICULUM OUTLINE - CLASS OF 2018  
PATTERN: YD**

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

	FALL	SPRING	SUMMER 1	SUMMER 2
<b>Year 1</b>	<a href="#">MATH1341</a> Calculus 1 for Engrs. 4 <a href="#">CHEM1151</a> General Chem for Engrs. 4 <a href="#">CHEM1153</a> Recitation for CHEM1151 0 <a href="#">GE1000</a> Intro. to Eng'g. 1 <a href="#">GE1110</a> Eng'g. Design 4 <a href="#">NU Core</a> Arts or Humanities Lvl. 1 4	<a href="#">MATH1342</a> Calculus 2 for Engrs. 4 <a href="#">PHYS1151</a> Physics 1 for Engrs. 3 <a href="#">PHYS1152</a> Physics 1 Lab 1 <a href="#">PHYS1153</a> ILS for PHYS1151 1 <a href="#">GE1111</a> Eng'g. Prob. Solv. & Comp. 4 <a href="#">ENGW1111</a> College Writing 4	Vacation	Vacation
<b>Year 2</b>	<a href="#">IE2310</a> Intro. Ind. Eng'g. 4 <a href="#">IE3425</a> Eng'g. Database 4 <a href="#">MATH2321</a> Calculus 3 for Engrs. 4 ***Elective Science Elective 5	<a href="#">MATH2341</a> Diff. Eq./Lin. Alg. 4 <a href="#">IE3412</a> Eng'g. Prob. & Stat. 4 <a href="#">IE4512</a> Eng'g. Economy 4 <a href="#">NU Core</a> Social Science Lvl. 1 4 <a href="#">MEIE2000</a> Intro. to Eng'g. Co-op 1	Vacation	Co-op
<b>Year 3</b>	Co-op	<a href="#">IE4515</a> Operations Research 4 <a href="#">IE4516</a> Quality Assurance 4 <a href="#">IE4522</a> Human Machine Sys. 4 <a href="#">IE4523</a> Lab for IE4522 1 <a href="#">IE4530</a> Mfg. Sys. & Techniques 4 <a href="#">IE4531</a> Lab for IE4530 1	<a href="#">*ENGW3302</a> Adv. Writing for Prof. Elective 4 Technical Elective 1 4	Co-op
<b>Year 4</b>	Co-op	<a href="#">IE4510</a> Simulation Modeling & Analys 4 <a href="#">IE4525</a> Logistic Supply Chain 4 <a href="#">MEIE3000</a> Prof. Issues in Eng'g. 1 Grad Course 4 Grad Course 4	Grad Course 4 <a href="#">MEIE4701</a> Capstone Design 1 1	Grad Course 4
<b>Year 5</b>	Elective Technical Elective 2 4 Elective General Elective 1 4 <a href="#">MEIE6850</a> Research Seminar 0 Grad Course 4 Grad Course 4	<a href="#">MEIE4702</a> Capstone Design 2 5 <a href="#">IE4520</a> Stochastic Modeling 4 Grad Course 4 Grad Course 4		

3/10/2015  
4/10/2017

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

English course prefixes have changed from ENGL to ENGW. ENGW1111 is equivalent to ENGL1111. ENGW3302 is equivalent to ENGL3302. Effective Fall 2014, the ENGW 3301 course number will be retired. Students may take ENGW 3302 or ENGW 3315 to fulfill their Advanced Writing in the Technical Professions requirement. ENGW 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 Elective: 1 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 or CSYE**

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

**Notes:**

Students will be required to meet with an undergraduate advisor to petition to enter the program.

Students are encouraged to meet with their financial aid counselor to review any financial questions.

4 semesters of coursework at Northeastern University must be completed with a minimum GPA of 3.2 to join the BS/MS program.

\* Students can submit "Petition for a Reduced Course Load" to be billed per credit.

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:**

<a href="#">PHYS 1155 Physics for Engineering 1</a> and <a href="#">PHYS 1156 Lab for PHYS 1155</a> and <a href="#">PHYS 1157 Interactive Learning Seminar for PHYS 1155</a>
<a href="#">CHEM 1214 General Chemistry 2</a> and <a href="#">CHEM 1215 Lab for CHEM 1214</a> and <a href="#">CHEM 1216 Recitation for CHEM 1214</a>
<a href="#">CHEM 2311 Organic Chemistry 1</a> and <a href="#">CHEM 2312 Lab for CHEM 2311</a> and <a href="#">CHEM 2319 Recitation for CHEM 2311</a>
<a href="#">BIOL 1115 General Biology 1 for Engineers</a> and <a href="#">BIOL 1116 Lab for BIOL 1115</a>
<a href="#">BIOL 1117 Integrated Anatomy and Physiology 1</a> and <a href="#">BIOL 1118 Lab for BIOL 1117</a>