BACHELOR OF SCIENCE IN INDUSTRIAL ENGINEERING - 4 YEAR 2 CO-OP PROGRAM

PATTERN OF ATTENDANCE - CLASS OF 2022

Sample Only – Actual Curriculum Sequence May Deviate from Sample

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**Freshman Year 1**

- MATH1342: Calculus 2 for Engrs. 4
- CHEM1153: General Chem. for Engrs. 4
- GE1000: Intro to Eng’g. 1
- ENGW1111: College Writing 4

**Year 2 AA**

- MATH2341: Diff. Eq./Lin. Alg. 4
- IE2310: Intro Ind. Eng’g 4
- IE2311: Recitation for IE2310 0
- IE3425: Eng’g Database 4
- IE3426: Recitation for IE3425 0

**Elective**

- Science Elective 5

**Year 2 BA**

- ENGW3302: Adv Writing in the Tech Prof (to be taken online) 4
- Co-op 0
- Co-op 0

**Year 3 AA**

- IE4516: Quality Assurance 4
- IE4515: Operations Research 4
- IE4510: Simulation Mod. & An. 4
- IE4530: Mfg. Sys. & Techniques 4
- IE4531: Lab for IE4530 1

**Year 3 BA**

- ENGW3302: Adv Writing in the Tech Prof (to be taken online) 4
- Co-op 0

**Year 4 AA**

- Co-op 0

**Year 4 BA**

- IE4512: Eng’g Economy 4
- IE4520: Stochastic Modeling 4
- IE4525: Logistics & Supply Chain 4

**Elective**

- Technical Elective 1 4
- Capstone Design 1 1

**Elective**

- General Elective 4

**Elective**

- Technical Elective 2 4

**Elective**

- General Elective 4

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, 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 Academic Advisor, found here.

The registrar’s website provides a listing of degree requirements and the DARS system provides a degree audit utility for students.

***Science Elective***