# Industrial Engineering Undergraduate Requirements

For those entering Fall 2019 and beyond

## 126 Total Credits Required

<table>
<thead>
<tr>
<th>Course Requirement</th>
<th>Satisfied By</th>
<th>Notes / Term Completed</th>
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</thead>
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### Math Requirements (18 or 19 credits)

- MATH 0220 (Calculus 1)
- MATH 0230 (Calculus 2)
- MATH 0240 (Calculus 3)
- MATH 0280 (Linear Algebra)
- MATH 0290 (Diff. Eq.) or MATH 413 (Theor. Math)

### IE Core (49 Credits)

- IE 0015 (Intro to Data Analytics)
- IE 1035 (Engineering Management)
- IE 1040 (Engineering Economy)
- IE 1051 (Engr Product Design)
- IE 1052 (Mfg. Processes)
- IE 1054 (Productivity Analysis)
- IE 1055 (Facl. Layout & Mat'l Hand)
- IE 1061 (Human Factors)
- IE 1070 (Prob., Rand Var., Distrib.)
- IE 1071 (Stat. Test.& Regression)
- IE 1072 (DOE and QA)
- IE 1080 (Supply Chain)
- IE 1081 (Operations Research)
- IE 1082 (Probabilistic OR)
- IE 1083 (Simulation)
- IE 1090 (Senior Design)

### Physics Requirements (8 credits)

- PHYS 0174 (Calc based Phys 1)
- PHYS 0175 (Calc based Phys 2)

### Chemistry Requirements (6 credits)

- CHEM 0960 (Chemistry 1)
- CHEM 0970 (Chemistry 2)

### Freshman Engineering Courses (6 credits)

- ENGR 0011 (or ENGR 0015)
- ENGR 0012 (or ENGR 0016)

### Technical Electives (15 credits)

- Technical Elective #1
- Technical Elective #2
- Technical Elective #3
- Technical Elective #4
- Technical Elective #5

### ENGR Courses - Select 2 of 3 - 0022 (Materials), 0135 (Statics & Dynamics), or any introductory Circuits Course (ECE 0031, COE 0031, MEMS 0031, ECE 0101, ECE 0201, BIOENG 1310) (6 credits)**

### H/SS electives (18 credits)

- H/SS 1
- H/SS 2
- H/SS 3
- H/SS 4
- H/SS 5
- H/SS 6

### H/SS Must satisfy:

- Depth (at least two in the same area and one not an intro course)
- Breadth (at least 3 different h/ss areas)
- "W" (writing course - can be satisfied with a non h/ss course)

### International Requirement (Option A OR Option B):

**Option A - An approved international experience:**

**Option B - Two (2) globally focused cohesive h/ss courses:**

Advisor Signature ____________________________________________  Student Signature ________________________________

Date ____________________________________________________________________________ Date __________________________

** Students are encouraged to take the 3rd of these as a technical elective