



## 2021 Suggested Courses for Industrial Engineering (IE) 2020 – 2021 Catalog

### 1) Major course options:

- **May already be fulfilled with transfer credit; check prerequisites**
- IME 101 (1)\*: Intro to Industrial & Manufacturing Engineering (required in fall 2021)
- IME 144 (4) ^: Introduction to Design and Manufacturing
- IME 212 (4) ^: Introduction to Enterprise Analytics
- IME 223 (4) ^: Process Improvement Fundamentals
- IME 301 (4) ^: Operations Research I
- IME 319 (3): Human Factors Engineering
- IME 141 (1): Manufacturing Processes: Net Shape
- IME 156 (2): Basic Electronics Manufacturing
- IME 315 (3): Financial Decision Making for Engineers
- For planning purposes, refer to [Term Typically Offered Website](#) for the term(s) courses are typically offered.

### 2) Support course options:

- **May already be fulfilled with transfer credit; check prerequisites**
- ME 211 (3): Engineering Statics  
or ME 212 (3)<sup>1</sup>: Engineering Dynamics
- CSC 232 (3)\*: Computer Programming for Scientists and Engineers
- CE 204 (3)<sup>1</sup>: Mechanics of Materials I
- BIO 213 (2) & BMED 213 (2): Life Science for Engineers and Bioengineering Fundamentals
- MATE 210 (3) & MATE 215 (1): Materials Engineering and Materials Laboratory I
- EE 201 (3) & EE 251 (1): Electric Circuit Theory and Laboratory  
or EE 321 (3)<sup>1</sup>: Electronics
- STAT 321 (4)\*: Probability and Statistics for Engineers and Scientists
- PSY 201 (4): General Psychology  
or PSY 202 (4): General Psychology
- ENGL 147 (4): Writing Arguments about STEM (ENGL 147 replaced ENGL 149)

**\*Course is required or strongly recommended in fall due to course availability or prerequisites**

**^Course should be taken as soon as possible**

**<sup>1</sup> Only 2 of 3 of the following are required: ME 212, CE 204, EE 321**

### 3) General Education (GE) course options:

- **May already be fulfilled with transfer credit; check prerequisites**
- Any remaining lower division GE course(s)
- Upper-Division C GE

- The [Graduation Writing Requirement \(GWR\)](#) must be fulfilled before graduation by either enrolling in a GWR-approved, upper-division English course (which can double-count with the Upper-Division C) OR by completing the [GWR Portfolio](#) (currently for students in graduating quarter only). GWR courses are searchable on Schedule Builder.
- The [United States Cultural Pluralism \(USCP\)](#) requirement must be satisfied before graduation. USCP courses may double-count with a remaining GE requirement and are searchable on Schedule Builder.

#### 4) Additional notes:

- Recommended that you enroll in 12 – 16 units
- All transfer students admitted in fall 2021 will follow the 20-21 catalog due to changes on the 21-22 catalog that may require additional coursework. You can change your [catalog year](#) through the [Registrar's Office](#), if you wish. We recommend [meeting with an advisor](#) before changing your catalog.
- Departments may issue [permission numbers](#) which are special codes used for students to enroll in classes that have seats reserved for majors, or to override registration errors. For IE and MFGE courses, please see the section about requesting a permission number on the [IME website](#).

#### 5) Engineering Student Services:

Engineering Advising | Multicultural Engineering Program | International Exchange Program

Location: Building 40, Room 115

Phone: 805-756-1461 (not monitored during COVID-19 office closure)

[ESS Email](#): eadvise@calpoly.edu

[ESS Website](#)

#### 6) IME Department:

Location: Building 192, Room 223

Phone: 805-756-2341

[IME Email](#): ime@calpoly.edu

[IME Website](#)