



2020 Suggested Courses for Manufacturing Engineering (MFGE) 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 2020)
- IME 140 (2)*: Graphics Communication and Modeling
- IME 223 (4)^: Process Improvement Fundamentals
- IME 327 (4)^: Test Design and Analysis in Manufacturing Engineering
- IME 141(1): Manufacturing Processes: Net Shape
- IME 142 (2): Manufacturing Processes: Materials Joining
- IME 144 (4): Introduction to Design and Manufacturing
- IME 156 (2): Basic Electronics Manufacturing
- IME 314 (3) or IME 315 (3): Engineering Economics or 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): Engineering Dynamics
or ME 302 (3): Thermodynamics I
- CSC 232 (3): Computer Programming for Scientists and Engineers
- CE 204 (3): 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): Electronics
- STAT 321 (4): Probability and Statistics for Engineers and Scientists

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

^Course should be taken as soon as possible

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 registering for the Writing Proficiency Examination (WPE). 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.

5) Engineering Student Services:

Engineering Advising | Multicultural Engineering Program | International Exchange Program

Location: Building 40, Room 115

Phone: 805-756-1461

[Email](#)

[Website](#)

6) IME Department:

Location: Building 192, Room 223

Phone: 805-756-2341

[Email](#)

[Website](#)

Permission Numbers for Major and Support Courses

- 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 email Stephanie Allen at sallen@calpoly.edu.