Cal PolyCollege of Engineering

*Engineering Student Services*

**2019 Suggested Courses for**

**Manufacturing Engineering (MFGE) 2019 – 2020 Catalog**

1. **Major course options:**

* **May already be fulfilled with transfer credit; check prerequisites**
* IME 441 (1)\*: Engineering Supervision (required in fall 2019)
  + MFGE students should NOT take IME 101 (1): Intro to Indr. & Mfg Engr.
  + Contact IME Department for permission to enroll (see below).
  + A course substitution (available at Engineering Student Services; see contact below) is required for IME 441 to substitute for IME 101.
* 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 [the catalog](http://catalog.calpoly.edu/coursesaz/ime/) for the term(s) courses are typically offered.

1. **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**

1. **General Education (GE) course options:**
   * **May already be fulfilled with transfer credit; check prerequisites**
   * Any remaining lower division GE course(s).
   * GE C4
   * The [Graduation Writing Requirement (GWR)](https://writingcenter.calpoly.edu/content/gwr/index) must be fulfilled before graduation by either enrolling in a GWR-approved, upper-division English course (which can double-count with the GE C4) OR by registering for the Writing Proficiency Examination (WPE). GWR courses are searchable on PASS.
   * The [United States Cultural Pluralism (USCP)](http://catalog.calpoly.edu/generalrequirementsbachelorsdegree/#uscptext) requirement must be satisfied before graduation. USCP courses may double-count with a remaining GE requirement and are searchable on PASS.
2. **Additional notes:**
   * Recommended that you enroll in 12 – 16 units.
3. **Engineering Student Services:**

Engineering Advising | Multicultural Engineering Program | International Exchange Program

Location: Building 40, Room 115

Phone: 805-756-1461

[Email](mailto:eadvise@calpoly.edu)

[Website](mailto:https://eadvise.calpoly.edu/transfer-students/)

1. **IME Department:**

Location: Building 192, Room 223

Phone: 805-756-2341

[Email](mailto:ime@calpoly.edu)

[Website](https://ime.calpoly.edu/)