MANUFACTURING ENGINEERING

BUILDING 192, ROOM 223 • 805-756-2341 • ime.calpoly.edu

PROGRAM DESCRIPTION
Manufacturing engineering applies engineering analysis and methods to design and improve the production of all manufactured goods and related services. The manufacturing engineer plans, develops and optimizes the processes of production, including manufacturing methods and the design of tools and equipment for manufacturing. The emphasis is on both development and sustained operation of manufacturing systems, including computer-aided methods, automation, design for manufacture, production tooling and material handling, as well as the processes and support systems of modern manufacturing.

OUR MISSION
To inspire and educate students for successful careers as engineering professionals using a Learn by Doing approach that develops students’ abilities to design and implement innovative, effective solutions for improving processes and systems in society, business and industry.

ASSOCIATED CLUBS
- Engineers Without Borders — ewb.calpoly.edu
- QL+ (Quality of Life Plus) — qlplus.calpoly.edu
- ASME Human Powered Vehicle (HPV) — hpv.calpoly.edu
- PROVE Lab — provelab.com
- Society of Automotive Engineers (SAE) — calpolyracing.org
- Society of Manufacturing Engineers — sme.org
- Society of Women Engineers — swe.calpoly.edu
- Supermileage — supermileage.calpoly.edu

A Cal Poly manufacturing engineering degree opens the door to many attractive career options in numerous industries. Beyond manufacturing and production management, Cal Poly graduates may also be responsible for inventory control, quality management and control, material flow, cost analysis, procurement and supply chain management. Many of our graduates also go on to successful graduate study programs.
**B.S. in Manufacturing Engineering**

Suggested Four-year Academic Flowchart • 2022-2026 Catalog

**Notes:**
- MOST GENERAL EDUCATION COURSES CAN BE TAKEN IN ANY ORDER AS LONG AS PREREQUISITES ARE MET
- Refer to current catalog for prerequisites.
- **One course from each of the following GE areas must be completed: A1, A2, C1, C2, Lower-Division C Elective, Upper-Division C, D1, Area D Elective, Lower-Division D, and F. Upper-Division C should be taken only after junior standing is reached (90 units).**
- Refer to online catalog for GE course selection. United States Cultural Pluralism (USCP) and Graduation Writing Requirement (GWR). USCP requirement can be satisfied by some (but not all) courses within GE categories: C1, Upper-Division C, D1, D2, Upper-Division D, or E.
- **13 units of Technical Electives required. Select from Category A (8-13 units) B & B (0-5 units). See catalog for course options. Consultation with advisor recommended prior to selecting courses. Courses may not be used to satisfy other major, support, or general education requirements (no double counting of coursework).**
- **Course can be taken previously or concurrently.**
- **Completion of GE Area A2 with a C- or better.**
- **Students can attempt to fulfill the requirement after 90 earned units; students should complete the requirement before senior year.**

**Legend:**
- Course Title
- Course # (Units)
- Major (74)
- Support (78)
- General Ed. (40)
- [GE Area]

**Total:** 192