Mechanical Engineering Bachelor of Science Degree, CSUF

120 units

First Year

- **Calculus I** — MATH 150A (4 units)
- **Calculus II** — MATH 150B (4 units)
- **Chemistry** See note [3] — CHEM 123 (3) or CHEM 120A (5)
- **Fund. Physics: Mechanics** — PHYS 225 (3 units)
- **Engineering Graphics** — EGME 102 (2 units)
- **Fund. Physics: Lab** — PHYS 225L (1 unit)
- **General Ed.** See note [1] — GE (3 units)
- **Digital Comp.** — EGME 105 (3 units)
- **General Ed.** See note [1] — GE (3 units)
- **General Ed.** See note [1] — GE (3 units)

Second Year

- **Calculus III** — MATH 250A (4 units)
- **Intro. to Lin. Alg & Diff.Eqns.** — MATH 250B (4 units)
- **Statics** — EGCE 201 (3 units)
- **Dynamics** — EGCE 202 (3 units)
- **Fund. Physics: Elect. & Mag.** — PHYS 226 (3 units)
- **Solid Mechanics** — EGME 222 (3 units)
- **Fund. Physics: Lab** — PHYS 226L (1 unit)
- **Electric Circuits** — EGEC 203 (3 units)
- **Thermodynamics** — EGME 232 (3)
- **Electric Circuits Lab** — EGEC 203L (1 unit)

Third Year

- **Engineering Analysis [2]** — EGME 308 (3 units)
- **Mechanical Vibrations** — EGME 323 (3) SPRING only
- **Kinematics of Mechanisms** — EGME 313 (3 units)
- **Machine Design** — EGME 314 (3) SPRING only
- **Fluid Mechanics** — EGME 333 (3) FALL only
- **Heat Transfer** — EGME 334 (3) SPRING only
- **Solid Mechanics Lab** — EGME 329L (1 unit)
- **Fluids & Thermal Lab** — EGME 339L (1) SPRING only
- **Intro. to Comp-Aid Design** — EGME 312 (3 units)
- **Engg. Econ. & Professionalism [2]** — EGME 401 (3)
- **General Ed.** See note [1] — GE (3 units)
- **General Ed.** See note [1] — GE (3 units)

Fourth Year

- **Dynamic Systems & Controls Lab** — EGME 429L (2) FALL only
- **Energy & Power Lab** — EGME 439L (2) SPRING only
- **Design Proj. I** — EGME 415A (3) FALL only
- **Design Proj. II** — EGME 415B (2) SPRING only
- **EGME Technical Elective** — Tech. Elect. (3 units)
- **EGME Technical Elective** — Tech. Elect. (3 units)
- **EGME Technical Elective** — Tech. Elect. (3 units)
- **EGME Technical Elective** — Tech. Elect. (2-3 units)
- **General Ed.** See note [1] — GE (3 units)
- **General Ed.** See note [1] — GE (3 units)
- **General Ed.** See note [1] — GE (3 units)

Mechanical Engineering
Other Engineering
Math Courses
Science Courses
General Ed. Courses

→ Prerequisite
- - → Corequisite

NOTES:

[1] Select the 8 General Ed. courses from the following TDA Areas:

For Catalog Year FA2025 and Beyond:
1A, 1C, 3A, 3B*, 4B, 6, 3U*, GRAD REQT

Catalog Year FA2021 - SP2025:
A.1, A.2, C.1, C.2*, C.3*, D.2, F, GRAD REQT

Catalog Year FA2019 - SP2021:
A.1, A.2, C.1, C.2*, C.3*, D.2, D.3 + an additional C.1 or C.2 course

Catalog Year FA2018 - SP2019:
A.1, A.2, C.1, C.2, C.3*, C.4*, D.2, D.3

* = select one course from this Area to double-count for Area Z

[2] The following classes may be substituted:
EGEC & EGCE 308 for EGME 308
EGEC & EGCE 401 for EGME 401

[3] If CHEM 123 is taken, an additional 2 units may be needed to meet the 120-unit requirement for graduation.

ME-BS-Flowchart-Rev01-28-2026