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 205 (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 331 (3 units)
- Fund. Physics: Lab — PHYS 226L (1 unit)
- Electric Circuits — EGEC 203 (3 units)
- Thermodynamics — EGME 304 (3)
- Electric Circuits Lab — EGEC 203L (1 unit)

Third Year

- Engineering Analysis [2] — EGME 308 (3 units)
- Mechanical Vibrations — EGME 431 (3) SPRING only
- Kinematics of Mechanisms — EGME 335 (3 units)
- Machine Design — EGME 421 (3) SPRING only
- Fluid Mechanics — EGME 333 (3) FALL only
- Heat Transfer — EGME 407 (3) SPRING only
- Solid Mechanics Lab — EGME 306A (1 units)
- Fluids & Thermal Lab — EGME 306B (1) SPRING only
- Intro. to Comp-Aid Design — EGME 322L (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 476A (2) FALL only
- Energy & Power Lab — EGME 476B (2) SPRING only
- Design Proj. I — EGME 414 (3) FALL only
- Design Proj. II — EGME 419 (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-Rev08-20-2025