California State University Los Angeles

Bachelor of Science in Mechanical Engineering, Fall 2026 Curriculum Recommended Schedule, Calculus Ready

Course
Name
[Pre-requisites]
<Pre/Co-requisites>
# of units

Freshman Year

16 units

- **ME 1070** Eng Math [Exam, MATH 1040, or MATH 1083] 3
- **ME 1079** Eng Math lab <ME 1070> 1
- **MATH 2110** Calc. I [Exam, MATH 1040, or MATH 1083] 4
- **ENGR 1500** 2
- **Area 1C** Oral Comm. 3
- **Area 1A** Engl. Comp. 3

15 units

- **MATH 2120** Calc. II [MATH 2110] 4
- **PHYS 2100** Physics I [ME 1070] 4
- **ME 1030** Eng. Graphics & CAD <PHYS 2100> 1
- **Area 3A** Arts 3
- **ENGL 2030** 3

Sophomore Year

14 units

- **MATH 2130** Calc. III [MATH 2120] 3
- **CHEM 1040** Gen. Chem. Eng. 4
- **ME 2030** Intro Mech. Design [PHYS 2100, ME 1030] 3
- **ME 2800** Num. Meth. I [MATH 2110] 1
- **ME 2010** Statics [PHYS 2100, MATH 2110] 3

16 units

- **MATH 2190** Linear Alg. & Diff. Eq. [MATH 2120] 3
- **PHYS 2200** Physics II [PHYS 2100] 4
- **ME 2070** Materials Sc. and Eng. [CHEM 1040, MATH 2110] 3
- **ME 2050** Strength materials [ME 2010] 3
- **ME 3030** Fluid Mech. [ME 2010] 3

Junior Year

16 units

- **ME 3000** Econ. Eng. [Junior or Senior] 3
- **ME 3200** Dynamics [ME 2010] 3
- **ME 3120** Strength Materials Lab [ME 2050] 1
- **ME 3040** Stat. Analysis Exp. Data [MATH 2120] 3
- **ME 2040** Circuit Analysis for ME [PHYS 2200, MATH 2120] 3
- **ME 3260** Thermo. [PHYS 2100, MATH 2110] 3

15 units

- **ENGR 3010** Ethics & Prof. [Junior or Senior] 3
- **ME 3270** Manufact. Proc. [ME 2030, ME 2050, ME 2070] 3
- **ME 4310** Materials Lab. [ME 2070] 1
- **ME 3230** Machine Design I [ME 2030, ME 2050, ME 2070, MATH 2130] 3
- **ME 3800** Num. Meth. II [ME 2800, MATH 2190] 2
- **Area 6** Ethnic Studies 3

Senior Year

16 units

- **ME 4971** Senior Project I [ME 3230, ME 3000, ENGR 3010] <ME 4061, ME 3040, ME 3800> 3
- **ME 4061** Heat Transfer [ME 3030, ME 3260, MATH 2190] 3
- **ME 4140** Machine Design II [ME 3230] <ME 3140> 3
- **ME 3140** Machine Des. Lab <ME 3230> 1
- **ME xxxx** Elective 3
- **US History** 3

14 units

- **ME 4972** ME Senior Project II 3
- **ME 4079** Thermal Fluids Lab. <ME 4061> 1
- **ME 4960** EIT Exam Prep [ME 3230, ME 3000, ENGR 3010] <ME 4061, ME 3040, ME 3800> 1
- **ME xxxx** Elective 3
- **ME xxxx** Elective 3
- **US Constit.** 3