California State University Los Angeles

Bachelor of Science in Mechanical Engineering, Fall 2026 Curriculum Recommended Schedule, MATH 1082

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

First Year

12 units	14 units
MATH 1082 Precalc 4	**MATH 1083** Precalc [MATH 1082] 4
ENGR 1500 2	**ME 1070** Eng Math <MATH 1040 or MATH 1083 or MATH 2110> 3
Area 3A Arts 3	**ME 1079** Eng Math lab <ME 1070> 1
Area 1A Engl. Comp. 3	**CHEM 1040** Gen. Chem. eng. 4
	Area 1C Oral Comm. 3

Second Year

13 units	14 units
MATH 2110 Calc. I [Exam, MATH 1040, or MATH 1083] 4	**MATH 2120** Calc. II [MATH 2110] 4
PHYS 2100 Physics I [ME 1070] 4	**PHYS 2200** Physics II [PHYS 2100] 4
ME 1030 Eng. graphics & CAD <PHYS 2100> 1	**ME 2070** Materials Sc. and Eng. [CHEM 1040, MATH 2110] 3
ENGL 2030 3	**ME 2010** Statics [PHYS 2100, MATH 2110] 3

Third Year

13 units	13 units
MATH 2130 Calc. III [MATH 2120] 3	**MATH 2190** Linear alg. & Diff. eq. [MATH 2120] 3
ME 4310 Materials lab. [ME 2070] 1	**ME 3030** Fluid Mech. [ME 2010] 3
ME 2030 Intro mech. Design [PHYS 2100, ME 1030] 3	**ME 3200** Dynamics [ME 2010] 3
ME 2050 Strength materials [ME 2010] 3	**ME 3120** Strength materials lab [ME 2050] 1
US History 3	**ME 2040** Circuit analysis for ME [PHYS 2200, MATH 2120] 3

Fourth Year

14 units	12 units
ME 3000 Econ. Eng. [Junior or Senior] 3	**ENGR 3010** Ethics & Prof. [Junior or Senior] 3
ME 3260 Thermo. [PHYS 2100, MATH 2110] 3	**ME 3270** Manufact. Proc. [ME 2030, ME 2050, ME 2070] 3
ME 3230 Machine design I [ME 2030, ME 2050, ME 2070, MATH 2130] 3	**ME 4140** Machine design II [ME 3230] <ME 3140> 3
ME 3140 Machine Des. Lab <ME 3230> 1	**ME 3040** Stat. Analysis Exp. Data [MATH 2120] 3
ME 2800 Num. Meth. I [MATH 2110] 1	
US Constit. 3	

Fifth Year

12 units	13 units
ME 4971 Senior Project I [ME 3230, ME 3000, ENGR 3010] <ME 4061, ME 3040, ME 3800> 3	**ME 4972** ME Senior Project II 3
ME 4061 Heat transfer [ME 3030, ME 3260, MATH 2190] 3	**ME 4960** EIT Exam Prep [ME 3230, ME 3000, ENGR 3010] <ME 4061, ME 3040, ME 3800> 1
ME 4079 Thermal fluids lab. <ME 4061> 1	**ME xxxx** Elective 3
ME 3800 Num. Meth. II [ME 2800, MATH 2190] 2	**ME xxxx** Elective 3
ME xxxx Elective 3	**Area 6** Ethnic Studies 3