California State University Los Angeles

Bachelor of Science in Mechanical Engineering, Fall 2024-Spring 2026 Curriculum Recommended Schedule, Calculus Ready

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

Freshman Year

16 units

MATH 2110 Calc. I
[Exam, MATH 1040, or MATH 1083]
4

CHEM 1040 Gen. Chem. Eng.
4

ENGR 1500
2

Block A A2 ENGL 1010
3

Block C Arts & Humanities
3

15 units

MATH 2120 Calc. II
[MATH 2110]
4

PHYS 2100 Physics I
[MATH 2110 or ME 1070]
4

ME 1030 Eng. Graphics & CAD
<PHYS 2100>
1

Block A A1: COM 1100 / HNRS 1100
3

ENGL 2030 Intro to tech. writing
3

Sophomore Year

16 units

MATH 2130 Calc. III
[MATH 2120]
3

PHYS 2200 Physics II
[PHYS 2100]
4

ME 2010 Statics
[PHYS 2100, MATH 2110]
3

ME 2030 Intro Mech. Design
[PHYS 2100, ME 1030]
3

Block F Ethnic Studies
3

16 units

ME 3030 Fluid Mech.
[ME 2010]
3

ME 2070 Materials Sc. and Eng.
[CHEM 1040, MATH 2110]
3

ME 2050 Strength Materials
[ME 2010]
3

ME 2040 Circuit Analysis for ME
[PHYS 2200, MATH 2120]
3

ME 2800 Num. Meth. I
[MATH 2110]
1

U.S. History
3

Junior Year

14 units

MATH 2190 Linear Alg. & Diff. Eq.
[MATH 2120]
3

ME 3260 Thermo.
[PHYS 2100, MATH 2110]
3

ME 3120 Strength Materials Lab
[ME 2050]
1

ME 3200 Dynamics
[ME 2010]
3

ME 3230 Machine Des. I
[ME 2030, ME 2050, ME 2070, MATH 2130]
3

ME 4310 Materials lab.
[ME 2070]
1

15 units

ME 3040 Stat. Analysis Exp. Data
[MATH 2120]
3

ME 4061 Heat Transfer
[ME 3030, ME 3260, MATH 2190]
3

ME 3210 Kinematics
[ME 3200]
3

ME 3000 Econ. Eng.
[Junior or Senior]
3

ENGR 3010 Ethics & Prof.
[Junior or Senior]
3

Senior Year

15 units

ME 3800 Num. Meth. II
[ME 2800, MATH 2190]
2

ME 4971 Senior Project I
[ME 3230, ME 3000, ENGR 3010]
<ME 4061, ME 3040, ME 3800>
3

ME 4140 Machine Design II
[ME 3230]
<ME 3140>
3

ME 3140 Machine Des. Lab
<ME 3230>
1

ME 3270 Manufact. Proc.
[ME 2030, ME 2050, ME 2070]
3

ME xxxx Elective
3

14 units

ME 4972 ME Senior Project II
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 xxxx Elective
3

US Constit. / Local Govt.
3