California State University Los Angeles

Bachelor of Science in Mechanical Engineering, Fall 2026 Curriculum Recommended Schedule, MATH 1083 or MATH 1040

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

First Year

13-15 units

MATH 1040 or MATH 1083
Trig/Functions
4-6

ME 1070
Eng. Math and Mechanics
<MATH 1040 or MATH 1083 or MATH 2110>
3

ME 1079
Engineering Math and Mechanics Lab
<ME 1070>
1

ENGR 1500
Intro to Engineering & Technology
2

Area 1A
English Composition
3

12 units

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

PHYS 2100
Physics I
[ME 1070]
4

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

Area 1C
Oral Communicat.
3

Second Year

14 units

MATH 2120
Calc. II
[MATH 2110]
4

PHYS 2200
Physics II
[PHYS 2100]
4

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

ME 2010
Statics
[PHYS 2100, MATH 2110]
3

13 units

MATH 2130
Calc. III
[MATH 2120]
3

CHEM 1040
Gen. Chem. Eng.
4

ME 2050
Strength Materials
[ME 2010]
3

ENGL 2030
3

Third Year

13 units

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

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

ME 3120
Strength Materials lab
[ME 2050]
1

ME 3200
Dynamics
[ME 2010]
3

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

13 units

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

ME 3030
Fluid Mech.
[ME 2010]
3

ME 3260
Thermodynam
[PHYS 2100, MATH 2110]
3

ME 4310
Materials Lab.
[ME 2070]
1

Area 3A
Arts
3

Fourth Year

11 units

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

ME 3140
Machine Des. Lab
<ME 3230>
1

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

ME 3270
Manufacturing Processes
[ME 2030, ME 2050, ME 2070]
3

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

12 units

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

ME 4079
Thermal Fluids Lab
<ME 4061>
1

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

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

US Constitution
3

Fifth Year

12 units

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 XXXX
Elective
3

US History
3

13 units

ME 4972
Senior Project II
3

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

ME XXXX
Elective
3