

Mechanical Engineering Prerequisite Courses

COURSE	PREREQUISITES
ME 101/L Introduction to Mechanical Engineering and Lab	MATH 102 or higher
ME 186/L Computer-Aided Design and Lab	MATH 102 or higher, ME 101/L
ME 209 Programming for Mechanical Engineers	<i>Corequisite: Math 150A</i>
ME 280 Differential Equations for Mechanical Engineers	MATH 150B , <i>Recommended preparatory course: MATH 250</i>
ME 286 Mechanical Engineering Design	ME 186/L , <i>Corequisite: MSE 227</i>
ME 309 Numerical Analysis of Engineering Systems	MATH 150B , *ME 209 (COMP 106/L or ECE 206/L or CE 280/L) *Note: ME Majors <i>must</i> take ME 209 <u>All other majors</u> check with your department
ME 330 Machine Design	ME 286 , CE 340 , MSE 227
ME 335/L Mechanical Measurements and Lab	PHYS 220B , ME 209
ME 370 Thermodynamics	CHEM 101/L , MATH 250 , PHYS 220A/L
ME 375 Heat Transfer I	MATH 280 or ME 280 or ECE 280 , PHYS 220A/L , ME 370
ME 384 System Dynamics: Modeling, Analysis and Simulation	AM 316 , ECE 240/L , <i>Corequisite: ME 390</i>
ME 386/L Computer-Aided Analysis & Design	ME 286 , <i>Corequisite: ME 330</i>
ME 390 Fluid Mechanics	ME 370 , PHYS 220A/L , MATH 250
ME 435/L Mechatronics and Lab	ECE 240/L , ME 335/L
ME 491 Thermal-Fluids Lab	ME 335/L , ME 370 , ME 375 , ME 390
ME 486A Senior Design in Mechanical Engineering I	ME 309 , ME 330 , <i>Corequisite: ME 386/L</i>
ME 486B Senior Design in Mechanical Engineering II	ME 486A
Senior Electives (4 required)	<i>Any 400- or 500-level ME Course except those on "not from" list on DPR</i>

Senior year courses CANNOT be taken unless the student has previously completed, or is concurrently completing, all freshman-, sophomore-, and junior-year requirements.

Math & Science Prerequisite Courses

COURSE	PREREQUISITES
CHEM 101/L General Chemistry and Lab	A) Satisfactory score on the Chemistry Placement Test (CPT) OR B) A grade of C or higher (C- is unacceptable) in CHEM 100 <u>taken at CSUN only</u>
MATH 150A Calculus I	Placement tests or Non-Lower Division Class Prerequisites (See the Math Department for details)
MATH 150B Calculus II	Math 150A
PHYS 220A/L Mechanics and Lab	MATH 150A
PHYS 220B/L Electricity and Magnetism and Lab	PHYS 220A/L, MATH 150B
MATH 250 Calculus III	MATH 150B with a grade of “C” or better
MATH 280 Applied Differential Equations	MATH 150B with a grade of “C” or better

Engineering Prerequisite Courses

COURSE	PREREQUISITES
MSE 227/L Engineering Materials and Lab	MATH 150A, CHEM 101/L, PHYS 220A/L
CE 240 Engineering Statics	PHYS 220A/L, Corequisite: MATH 150B
ECE 240/L Electrical Engineering Fundamentals and Lab	PHYS 220B/L, MATH 250, Corequisite: MATH 280 or ME 280 or ECE 280
MSE 304 Engineering Economic Analysis	MATH 150B AND Completion of Lower Division Writing Requirement
CE 340 Strength of Materials	CE 240, MATH 280 or ME 280 or ECE 280
AM 316 Engineering Dynamics	CE 240, MATH 280 or ME 280 or ECE 280
AM 317 Mechanics Lab	CE 340, Corequisite: AM 316