

UTSA
College of Engineering
MECHANICAL ENGINEERING
Prerequisite List
2008-2010 Undergraduate Catalog
<http://www.utsa.edu>

NOTE: Prerequisites for CE, EE, ME, and EGR courses must be completed with a grade of “C” or better. A minimum grade of “C” is required for all science and mathematics courses required in the Engineering programs. Transfer students must request a transfer evaluation from the undergraduate advisors during their first semester. A grade of “D” may not be transferred into major work requirements. Students may not graduate with a grade of “D” in a course required for the major.

Course Number and Title (T/E = Technical Elective and concentration)	Prerequisites (credit or concurrent enrollment) ALWAYS CHECK CURRENT CATALOG
ME 1301 Intro to ME Design	ME Freshmen
ME 1402 Engineering Graphics	ME 1301
ME 3113 Measurements & Instrumentation	(EE 2213)
ME 3173 Numerical Methods	EGR 2323
ME 3241 Materials Engineering Lab	(ME 3243)
ME 3243 Materials Engineering	CHE 1103, EGR 2103, (ME 3241)
ME 3263 Manufacturing Engineering	(ME 3243)
ME 3293 Thermodynamics I	EGR 2103
ME 3323 Mechanical Vibration (T/E – Mechanical)	EGR 2513
ME 3513 Mechanism Design	EGR 2513
ME 3593 Alternative Energy Sources (T/E – Thermal)	ME 3293
ME 3663 Fluid Mechanics	EGR 2513, EGR 3323
ME 3813 Mechanics of Solids	EGR 2103
ME 3823 Machine Element Design	ME 1402, ME 3813
ME 4133 CAD/CAE (T/E – Mechanical)	ME 1402
ME 4183 Compressible Flow & Propulsion Syst (T/E – Thermal)	ME 3293, ME 3663
ME 4243 Intermediate Materials Engineering (T/E – Mechanics)	ME 3241, ME 3243, ME 3813
ME 4293 Thermodynamics II	MAT 2213, ME 3293
ME 4313 Heat Transfer & Rate Processes	ME 3173, ME 3293, ME 3663
ME 4323 Thermal Systems Design (T/E – Thermal)	ME 3663, (ME 4313)
ME 4343 Heating, A/C, & Refrig Design (T/E – Thermal)	ME 3293, ME 3663, (ME 4313)
ME 4523 Dynamic Systems & Control	EGR 2513, EGR 3323
ME 4553 Automotive Vehicle Dynamics (T/E – Mechanical)	ME 3513
ME 4563 Computer Integrated Manufacturing (T/E – Manufacturing)	ME 3263
ME 4573 Facilities Planning & Design (T/E – Manufacturing)	(ME 3263)
ME 4583 Enterprise Process & Engineering (T/E – Manufacturing)	(ME 3263)
ME 4603 Finite Element Analysis (T/E – Mechanics)	ME 3813
ME 4613 Power Plant System Design (T/E – Thermal)	ME 3663, ME 4293
ME 4623 Internal Combustion Engines (T/E – Thermal)	ME 3293, ME 3663
ME 4663 Fluid Systems Design (T/E – Thermal)	ME 3663, ME 3173
ME 4673 Mechanical Systems Design (TE – Mechanical)	ME 3513, ME 3823
ME 4702 Mechanical Systems & Control Lab	ME 3113, ME 3813, (ME 4523)
ME 4723 Reliability & Quality Control (T/E – Mechanical)	EGR 2323, ME 3113
ME 4773 Fundamentals of Robotics (T/E – Mechanical)	ME 3513
ME 4802 Thermal & Fluid Lab	ME 3113, ME 3663, (ME 4313)
ME 4811 Senior Design I	ME 3663, ME 3823, (ME 4313)
ME 4813 Senior Design II	ME 4811, ME 4313
ME 4953 Special Studies in ME (T/E)	Will depend on topic
ME 4963 Bioengineering (T/E – Mechanics)	ME 3813, EGR 2513
CHE 1103 General Chemistry I	(MAT 1073), CHE 1073 or passing score on Chemistry Placement Exam
EE 2213 Electric Circuits/Electronics	PHY 1923, (EGR 2323)
EGR 2103 Statics	MAT 1223, PHY 1903
EGR 2513 Dynamics	EGR 2103
EGR 2323 Applied Engineering Analysis I	MAT 1223
EGR 3323 Applied Engineering Analysis II	EGR 2323
MAT 1214 Calculus I	MAT 1093 or passing score on placement exam
MAT 1223 Calculus II	MAT 1214
MAT 2213 Calculus III	MAT 1223
PHY 1903 Engineering Physics I	MAT 1214, (MAT 1223)
PHY 1911 Engineering Physics I Lab	(PHY 1903)
PHY 1923 Engineering Physics II	PHY 1903, MAT 1223
PHY 1931 Engineering Physics II Lab	(PHY 1923)
MATH/SCIENCE ELECTIVE	
BIO 1404 Biosciences I	
CHE 1013 Elementary Organic & Biochemistry	CHE 1103
CHE 1113 General Chemistry II	CHE 1103
MAT 2323 Linear Algebra	MAT 1223 or EGR 2323
PHY 1983 Physics for Scientists III	PHY 1923
PHY 3103 Modern Physics	(MAT 2213), consent of instructor
STA 2303 Applied Probability/Statistics for Engineers	MAT 1223