

UTSA
College of Engineering
MECHANICAL ENGINEERING
Prerequisite List
2006-2008 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, unless it is considered a terminal course.

Course Number and Title (T/E = Technical Elective)	Prerequisites (credit or concurrent enrollment) ALWAYS CHECK CURRENT CATALOG
ME 1402 Engineering Graphics	ME 1301
ME 3113 Measurements & Instrumentation	EE 2213 (Completion of or concurrent enrollment in EE 2213)
ME 3173 Numerical Methods	EGR 2323
ME 3241 Materials Engineering Lab	ME 3243 (Completion of or current enrollment in ME 3243)
ME 3243 Materials Engineering	CHE 1103, EGR 2103
ME 3263 Materials Processing (T/E)	EGR 2513, ME 3243
ME 3293 Thermodynamics I	EGR 2103
ME 3323 Mechanical Vibration	EGR 2513
ME 3513 Mechanism Design (T/E in 0406)	EGR 2513
ME 3593 Alternative Energy Sources (T/E)	ME 3293
ME 3663 Fluid Mechanics	MAT 2513 and EGR 3323
ME 3813 Mechanics of Solids	EGR 2103
ME 3823 Machine Element Design	ME 1402, ME 3813
ME 4133 CAD/CAE (T/E)	ME 1402
ME 4183 Compressible Flow & Propulsion Syst (T/E)	ME 3293, ME 3663
ME 4243 Intermediate Materials Engineering (T/E)	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)	ME 3663 and completion of or concurrent enrollment in ME 4313
ME 4343 Heating, A/C, & Refrig Design (T/E)	ME 3293, ME 3663, (ME 4313)
ME 4523 Dynamic Systems & Control	EGR 2513, EGR 3323
ME 4553 Automotive Vehicle Dynamics (T/E)	ME 3513
ME 4603 Finite Element Analysis (T/E 0608)	ME 3823
ME 4613 Power Plant System Design (T/E)	ME 3663, ME 4293
ME 4623 Internal Combustion Engines (T/E)	ME 3293, ME 3663
ME 4663 Fluid Systems Design (T/E)	ME 3663, ME 3173
ME 4673 Mechanical Systems Design	ME 3513, ME 3824
ME 4702 Mechanical Systems & Control Lab	ME 3113, ME 3813 and completion of or current enrollment in ME 4523.
ME 4723 Reliability & Quality Control (T/E)	EGR 2323, ME 3113
ME 4773 Fundamentals of Robotics (T/E)	ME 3513
ME 4802 Thermal & Fluid Lab	ME 3113, ME 3663 and completion of or current enrollment in ME 4313.
ME 4811 Senior Design I	ME 3663, ME 3823 and completion of or current enrollment in ME 4313.
ME 4813 Senior Design II	ME 4811, ME 4313
ME 4953 Special Studies in ME (T/E)	Will depend on topic
CHE 1103 General Chemistry I	MTC 1073 passing score on Chem Placement or CHE 1073 w/"C" or better
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	MAT 2213, EGR 2323
MAT 1214 Calculus I	MAT 1093 or equivalent, 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 With a grade of "C" or better, MAT 1223
PHY 1911 Engineering Physics I Lab	PHY 1903 (Completion of or current enrollment in PHY 1903)
PHY 1923 Engineering Physics II	PHY 1903 and MAT 1223 both w/a grade of "C" or better
PHY 1931 Engineering Physics II Lab	(PHY 1923)
MATH/SCIENCE ELECTIVE	
BIO 1113 Biology I	
CHE 1013 Elementary Organic & Biochemistry	CHE 1003 or CHE 1103
CHE 1113 General Chemistry II	CHE 1103 w/a grade of "C" or better or equivalent course
MAT 2323 Linear Algebra	MAT 2213 or EGR 2323
PHY 1983 Physics for Scientists III	PHY 1963 or PHY 1923 with grade of "C" or better
PHY 3103 Modern Physics	PHY 1983 and completion of MAT 2213 and PHY 3203 w/ "C" or better or concurrent enrollment therein
STA 2303 Applied Prob/Stats for Engr	MAT 1223

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**ALL UNDERGRADUATE ENGINEERING STUDENTS AT THE SOPHOMORE LEVEL AND ABOVE
MUST SEE A FACULTY ADVISOR EVERY FALL AND SPRING PRIOR TO REGISTRATION**