

UTSA
 College of Engineering
MECHANICAL ENGINEERING
 Prerequisite List
 2004-2006 Undergraduate Catalog
<http://www.utsa.edu>

Any courses that can be taken **concurrently** if credit has not already been earned are shown in parentheses.
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)

Prerequisites (credit or concurrent enrollment)

ALWAYS CHECK CURRENT CATALOG

ME	1403 Engineering Graphics & Design	EGR 1303
ME	3103 Kinematics & Dynamics	EGR 2103, EGR 2323
ME	3173 Numerical Methods in ME	EGR 2323
ME	3241 Materials Engineering Lab	(ME 3243)
ME	3243 Materials Engineering	CHE 1103, EGR 2103
ME	3263 Materials Processing (T/E)	ME 3103, ME 3243
ME	3293 Thermodynamics I	EGR 2103
ME	3312 Electronics & Data Acquisition Lab	PHY 1931, STA 2303, (EE 2213)
ME	3323 Dynamics of Mechanical Systems (T/E)	ME 3103
ME	3513 Mechanism Design (T/E in 0406)	ME 3103
ME	3593 Alternative Energy Sources (T/E)	ME 3293
ME	3663 Fluid Mechanics	EGR 3323, ME 3103
ME	3813 Mechanics of Solids	EGR 2103
ME	3823 Machine Element Design	ME 1403, ME 3813
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	EGR 3323, ME 3293
ME	4313 Heat Transfer & Rate Processes	ME 3293, ME 3173, ME 3663
ME	4323 Thermal Systems Design (T/E)	ME 3663, (ME 4313)
ME	4343 Heating, A/C, & Refrig. Design (T/E)	ME 3293, ME 3663, (ME 4313)
ME	4523 Dynamic Systems & Control	EGR 3323, ME 3103
ME	4603 FEA in Mechanical Design	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	4702 Mechanical Systems & Control Lab	ME 3312, ME 3813, (ME 4523)
ME	4723 Reliability & Quality Control (T/E)	EGR 3323, STA 2303
ME	4802 Thermal & Fluid Lab	ME 3312, ME 3663, (ME 4313)
ME	4811 ME Design Project Planning	ECO 2023, ME 3663, ME 3823, (ME 4313)
ME	4813 ME Design Project	ME 4811, ME 4313
ME	4953 Special Studies in ME	Consent of instructor
ME	4963 Topics in Bioengineering (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 1924, (EGR 2323)
EGR	1303 Exploring the Engr Profession	
EGR	2103 Statics	MAT 1223, PHY 1904
EGR	2323 Applied Engineering Analysis I	MAT 1223
EGR	3323 Applied Engineering Analysis II	EGR 2323
MAT	1214 Calculus I	MAT 1093 or equivalent, or passing score on placement exam
MAT	1223 Calculus II	MAT 1214
PHY	1904 Technical Physics I	MAT 1214 w/ a grade of “C” or better, (MAT 1223)
PHY	1911 Technical Physics I Lab	(PHY 1904)
PHY	1924 Technical Physics II	PHY 1904 and MAT 1223 both w/ a grade of “C” or better
PHY	1931 Technical Physics II Lab	(PHY 1924)
STA	2303 Applied Prob/Statistics for Engr	MAT 1223
MATH/SCIENCE ELECTIVE		
BIO	1113 Biology I	
CHE	1203 Elementary Organic & Biochemistry	CHE 1003
CHE	1303 General Chemistry II	CHE 1103 w/ a grade of “C” or better or equivalent course
CHE	4363 NMR Spectroscopy	PHY 1924, (CHE 3224), or consent of instructor
ES	2013 Intro to Environmental Systems I	
MAT	2213 Calculus III	MAT 1223
MAT	2323 Linear Algebra	MAT 2213 or EGR 2323
PHY	3103 Modern Physics	PHY 1924
PHY	4233 Environmental Physics	PHY 3103 or Consent of instructor
PHY	4553 Health Physics	PHY 1924 or Consent of instructor
STA	3313 Intro to Sample Survey	MS 3313 or PSY 3013 or STA 1993 or STA 2303 or STA 3513 or STA 3543
STA	4713 Applied Regression Analysis	MS 3313 or PSY 3013 or STA 1993 or STA 2303 or STA 3513 or STA 3543
STA	4723 Design & Analysis of Experiments	MS 3313 or PSY 3013 or STA 1993 or STA 2303 or STA 3513 or STA 3543

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