

UTSA
College of Engineering
ELECTRICAL ENGINEERING
Prerequisite List
2008-2010 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 with concentration area)	Prerequisites (credit or concurrent enrollment) ALWAYS CHECK CURRENT CATALOG
EE 1323 Intro to EE Profession	EE Freshmen
EE 2423 Network Theory	EE 1323, (PHY 1923, EGR 2323)
EE 2511 Logic Design Lab	(EE 2513)
EE 2513 Logic Design	EE 1323, (CS 2073)
EE 3113 Electrical Engineering Lab I	EE 2423, EE 2513, (EE 3313)
EE 3213 Electromagnetic Engineering	PHY 1923, (EGR 3323)
EE 3223 C++ and Data Structures (T/E – Comp.)	EE 3463
EE 3313 Electronic Circuits I	PHY 1923, EE 2423, (EE 3323, EE 3423)
EE 3323 Electronic Devices	CHE 1103, (EE 3213)
EE 3413 Analysis & Design of Control Systems	EGR 2213, EGR 2323, EE 3423
EE 3423 Signals & Systems I	EGR 2323, EE 2423
EE 3463 Microcomputer Systems I	EE 2513, CS 2073, (EE3563)
EE 3513 Electromechanical Systems (T/E – Syst.)	EE 3213, EGR 2213
EE 3523 Signals & Systems II	EE 3423
EE 3533 Random Signals and Noise	MAT 1223
EE 3563 Digital Systems Design (T/E – Comp.)	EE 2511, EE 2513
EE 4113 Electrical Engineering Lab II	EE 3113, EE 3463, EE 4313
EE 4243 Computer Organization & Arch (T/E – Comp.)	EE 3463, EE 3563
EE 4313 Electronic Circuits II	EE 3313, EE 3323, (EE 3523)
EE 4323 Dielectric and Optical Engineering Lab (T/E – MEMS)	EE 3213, (EE 3323)
EE 4353 Intro to Modern Optics (T/E)	EE 3213
EE 4443 Discrete-Time/Comp-Control Systems (T/E – Syst.)	EE 3413, (EE 3523)
EE 4453 Special Topics in Digital Signal Processing (T/E - DSP)	EE 4643
EE 4513 Intro to VLSI Design (T/E – Comp./MEMS)	EE 3323, EE 3563, (EE 4313)
EE 4523 Intro to Micro & Nanotechnology (T/E – MEMS)	(EE 3323)
EE 4533 Principles of Micro-fabrication (T/E – MEMS)	(EE 3323)
EE 4543 Advanced topics in Micro & Nanotechnology (T/E – MEMS)	(EE 3323)
EE 4553 VLSI Testing (T/E – Comp.)	EE 3563
EE 4573 Engineering Workstations (T/E – Comp.)	EE 3463, EE 3563
EE 4583 Microcomputer Systems II (T/E – Comp.)	EE 3463, (EE 4313)
EE 4613 Communication Systems (T/E – Comm.)	EE 3423, and STA 3533 or EE 3533
EE 4623 Digital Filtering (T/E – DSP)	EE 3423, (EE 3463)
EE 4643 Digital Signal Processing (T/E – DSP)	(EE 3523), and (STA 3533 or EE 3533)
EE 4653 Digital Communications (T/E – Comm.)	EE 3423, and STA 3533 or EE 3533
EE 4663 Digital Image Processing (T/E - DSP)	EE 3523
EE 4673 Data Communication & Networks (T/E – Comm.)	(EE 4613)
EE 4683 Wireless Communications (T/E – Comm.)	EE 3423, EE 3533 or STA 3533
EE 4693 Fiber Optic Communications (T/E – Comm.)	EE 3313, EE 3423, (EE 3213)
EE 4723 Intelligent Robotics (T/E – Syst.)	EE 3413 or ME 4523
EE 4733 Intelligent Control (T/E – Syst.)	EE 3413
EE 4743 Embedded Control Systems (T/E – Syst.)	EE 3413, EE 3463
EE 4753 Computer Analysis of Power Systems (T/E – Syst.)	EE 3413, EE 3513
EE 4811 EE Design I	(EE 4113)
EE 4813 EE Design II	EE 4113, EE 4811
EE 4953 Special Studies in EE	Consent of instructor
CHE 1103 General Chemistry I	(MTC 1073), CHE 1073 or Passing score on Chemistry Placement Exam
CS 2073 Comp Program w/ Engineering Applications	MAT 1214, (MAT 1223)
EGR 2213 Statics & Dynamics	MAT 1223, PHY 1903
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
PHY 1903 Engineering Physics I	MAT 1214, (MAT 1223)
PHY 1911 Technical Physics I Lab	(PHY 1903)
PHY 1923 Engineering Physics II	PHY 1903, MAT 1223
PHY 1931 Technical Physics II Lab	PHY 1911, (PHY 1923)
STA 3533 Probability & Random Processes	EE 3423, EGR 2323 or MAT 3253