UTSA

ELECTRICAL AND COMPUTER ENGINEERING
RECOMMENDED PROGRAM OF STUDY
2008 - 2010 UNDERGRADUATE CATALOG

Revised 06/302008

SEMESTER I				SEMESTER II			
MAT	1214	Calculus I	4	MAT	1223	Calculus II	3
EE	1323	Intro to EE Profession	3	CS	2073	Comp Prog w/Engr Appl	3
CHE	1103	General Chemistry I	3	EE	2513	Logic Design	3
WRC	1013	Freshman Composition I	3	EE	2511	Logic Design Lab	1
COR	1203	Freshman Seminar/Soc-Beh Science	3	PHY	1903	Engineering Physics I	3
				PHY	1911	Engineering Physics I Lab	1
				WRC	1023	Freshman Compostition II	3
Semester Total			16	Semester Total			17

SEMESTER III				SEMESTER IV			
EGR	2213	Statics and Dynamics	3	EE	3313	Electronic Circuits I	3
EGR	2323	Applied Engineering Anaylsis I	3	EE	3423	Signals & Systems I	3
EE	2423	Network Theory	3	EE	3463	Microcomputer Systems I	3
PHY	1923	Engineering Physics II	3	EGR	3323	Applied Engineering Analysis II	3
PHY	1931	Engineering Physics II Lab	1	**CORE***		U.S. History & Diversity	3
CORE*		U.S. History & Diversity	3				
Semester Total			16	Semester Total			15

SEMESTER V				SEMESTER VI			
EE	3113	EE Lab I	3	EE	3523	Signals & Systems II	3
EE	3213	Electromagnetic Engineering	3	EE	4313	Electronic Circuits II	3
EE	3413	Analysis/Design Control Syst	3	EE	3533	Random Signals & Noise	3
EE	3323	Electronic Devices	3	EE		Technical Elective	3
CORE*		Visual & Performing Arts	3	**CORE***		Political Science 1013 (U.S.)	3
Semester Total			15	Semester Total			15

SEMESTER VII				SEMESTER VIII			
EE	4113	EE Lab II	3	EE	4813	EE Design II	3
EE	4811	EE Design I	1	EE		Technical Elective	3
EE		Technical Elective	3	EE		Technical Elective	3
EE		Technical Elective	3	**CORE***		Economics (2003, 2013, or 2023)	3
CORE*		Political Science (Texas)	3	**CORE***		World Society & Issues	3
CORE*		Literature	3				
Semester Total			16	Semester Total			15
						Total Required Degree Hours	**125**

***PLEASE REFER TO UTSA 2008-10 UNDERGRADUATE CATALOG PAGES 5-9.**

DEADLINE TO APPLY FOR GRADUATION:
FALL: Apr. 15; SPR: Nov. 15; SMR: Feb. 15

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

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