

COMPUTER ENGINEERING (CEEN) - DEGREE PLAN

Name: _____ UIN: _____

Total credits required: 128
Catalog Edition: 139
Students entering 2016-17

FRESHMAN	16 Credits	CR T-P	17 Credits	CR T-P	
	ENGR 111 - Foundations of Engineering I <i>MATH 151c</i>	2 1-3		ENGR 112 - Foundations of Engineering II <i>ENGR 111; MATH 151</i>	2 1-3
	MATH 151 - Engineering Math I <i>MATH 150 or MPE Acceptable Score</i>	4 3-2		MATH 152 - Engineering Math II <i>MATH 151</i>	4 3-2
	PHYS 218 - Mechanics <i>MATH 151c</i>	4 3-3		PHYS 208 - Electricity and Optics <i>PHYS 218; MATH 152c</i>	4 3-3
	ENGL 104 - Composition and Rhetoric <i>No prerequisites</i>	3 3-0		CHEM 107 - Chemistry for Engineers <i>CHEM 117c</i>	3 3-0
	University Core Curriculum ^A <i>See university approved list</i>	3 3-0		CHEM 117 - Chemistry for Engineers Lab <i>CHEM 107c</i>	1 0-3
				University Core Curriculum ^A <i>See university approved list</i>	3 3-0
SOPHOMORE	17 Credits	CR T-P	17 Credits	CR T-P	
	CSCE 121 - Intro Prog Design & Concepts <i>ENGR 112 or Programming Course</i>	4 3-2		MATH 308 - Differential Equations <i>MATH 251c</i>	3 3-0
	MATH 251 - Engineering Math III <i>MATH 152</i>	3 3-0		CSCE 221 - Data Structures and Algorithms <i>CSCE 121; CSCE 222c</i>	4 3-2
	ECEN 248 - Digital System Design <i>ENGR 111; 112; PHYS 208; CHEM 107; 117; MATH 152</i>	4 3-3		ECEN 214 - Electrical Circuit Theory <i>ENGR 111; 112; PHYS 208; CHEM 107; 117; MATH 308c</i>	4 3-3
	CSCE 222 - Discrete Structures for Computing <i>MATH 151</i>	3 3-0		ECEN 303 - Random Signals and Systems <i>or STAT 211 - Principles of Statistics I^C</i>	3 3-1 3 3-0
	Communications Elective^B <i>See university approved list</i>	3 3-0		University Core Curriculum ^A <i>See university approved list</i>	3 3-0
JUNIOR	15 Credits	CR T-P	16 Credits	CR T-P	
	MATH 311 - Topics in Applied Math I <i>MATH 251; 308c</i>	3 3-0		CSCE 315 - Programming Studio <i>ECEN 350; CSCE 313c</i>	3 2-2
	CSCE 313 - Introduction to Computer Systems <i>CSCE 221; ECEN 350c</i>	4 3-2		ECEN 325 - Electronics <i>ECEN 314c; MATH 311</i>	4 3-4
	ECEN 314 - Signals and Systems <i>ECEN 214; MATH 308</i>	3 3-1		ECEN 449 - Microprocessor System Design <i>ECEN 248</i>	3 2-2
	ECEN 350 - Computer Architecture and Design <i>ECEN 248</i>	4 3-3		ECEN 454 - Digital IC Design <i>ECEN 214; 248</i>	3 2-2
	CSCE 481 - Seminar <i>Junior/Senior Classification</i>	1 0-2		University Core Curriculum ^A <i>See university approved list</i>	3 3-0
SENIOR	CR T-P	CR T-P	CR T-P	CR T-P	
	ECEN 403 - Electrical Design Lab I <i>Comm; ECEN 314; 325; 350; 449; CSCE 315; STAT 211 or ECEN 303</i>	3 2-3		ECEN 404 - Electrical Design Lab II <i>ECEN 403</i>	3 2-3
	Area Elective ^D <i>See department approved list</i>			Area Elective ^D <i>See department approved list</i>	
	Area Elective ^D <i>See department approved list</i>			Area Elective ^D <i>See department approved list</i>	
	Engineering Elective ^C <i>See department approved list</i>			University Core Curriculum ^A <i>See university approved list</i>	3 3-0
	ENGR/PHIL 482 - Ethics and Engineering^E <i>Junior classification</i>	3 3-0		University Core Curriculum ^A <i>See university approved list</i>	3 3-0
	ICD Elective ^A <i>See university approved list</i>	3 3-0		ICD Elective ^A <i>See university approved list</i>	3 3-0

^A Students must select from: POLS 206 & 207 (3 cr each), American History (6 cr), Social and Behavioral Sciences Elective (3 cr), Creative Arts Elective (3 cr), and International and Cultural Diversity (ICD) Electives (6 cr). Some ICD Electives also count toward Creative Arts, Social and Behavioral Sciences or American History. See TAMU catalog for complete list of approved courses: <http://catalog.tamu.edu>.

^B Select from ENGL 210, COMM 205 or 243.

^C ECEN 303 has a prerequisite of MATH 308. STAT 211 has a prerequisite of MATH 152. Students intending to specialize in Communications are encouraged to take ECEN 303.

^D See advising office for list of approved electives.

^E ENGR/PHIL 482 also fulfills the UCC Language, Philosophy & Culture requirement.

- Courses in **bold** must be completed with a C or better.
- Two years of the same foreign language/sign language (high school) or two semesters of the same foreign language (college) are required for graduation.