

Name: _____
 UIN: _____

ELEN Electrical Engineering
Total Credits Required: 128; Catalog Edition #136
 For students entering 2013-2014

Freshman							
	Th-Pr	Cr	Prerequisite		Th-Pr	Cr	Prerequisite
<u>ENGL 104 - Composition & Rhetoric</u>	(3-0)	3		<u>CHEM 107-Chem for Engineers</u>	(3-0)	3	CHEM 117c
<u>ENGR 111-Foundations of Eng. I</u>	(1-3)	2	calculus ready	<u>CHEM 117-Chem for Engineers lab</u>	(0-3)	1	CHEM 107c
<u>MATH 151-Engineering Math I</u>	(3-2)	4	calculus ready	<u>ENGR 112-Foundations of Eng. II</u>	(1-3)	2	ENGR 111
<u>PHYS 218 - Mechanics</u>	(3-3)	4	calculus ready	<u>MATH 152-Engineering Math II</u>	(3-2)	4	MATH 151
American History or another UCC ^D		3		<u>PHYS 208-Electricity & Optics</u>	(3-3)	4	PHYS 218
<u>KINE 198^A</u>	(0-2)	1		American History or another UCC ^D		3	
		17		<u>KINE 199^B</u>	(0-2)	1	
						18	
Sophomore							
	Th-Pr	Cr	Prerequisite		Th-Pr	Cr	Prerequisite
<u>ECEN 248-Digital System Design</u>	(3-3)	4	UPPER DIVISION	<u>ECEN 214-Electrical Circ. Theory</u>	(3-3)	4	MATH 308c, PHYS 208
<u>MATH 251-Engineering Math III</u>	(3-0)	3	MATH 152	<u>MATH 308-Differential Equations</u>	(3-0)	3	MATH 251
Social Science Elective or another UCC ^D		3		<u>PHYS 222-Modern Physics for Engineers</u>	(3-0)	3	PHYS 208, MATH 308c
Vis. & Perf. Arts elective or another UCC ^D		3		ISEN 302-Economic Analysis of Eng. Proj.	(2-0)	2	MATH 152
<u>POLS 206 or another UCC^D</u>		3		<u>POLS 207 or another UCC^D</u>		3	
		16				15	
Junior							
	Th-Pr	Cr	Prerequisite		Th-Pr	Cr	Prerequisite
<u>ECEN 314-Signals & Systems</u>	(3-1)	3	ECEN 214; MATH 308	<u>ECEN 303-Random Signals & Systems</u>	(3-1)	3	MATH 308
<u>ECEN 322-Electric & Magnetic Fields</u>	(3-1)	3	ECEN 214	<u>ECEN 350-Comp. Architecture & Design</u>	(3-3)	4	ECEN 248
<u>ECEN 325-Electronics</u>	(3-4)	4	ECEN 314c	<u>ECEN 370-Elec Properties of Materials</u>	(3-1)	3	PHYS 222
Technical Writing ^C		3	ENGL 104	Technical Elective ^E		3	
<u>MATH 311-Topics in Applied Math I</u> (MATH 309 acceptable substitution for 311)	(3-0)	3	MATH 308	ECEN Elective ^E		3	
		16				16	
Senior							
	Th-Pr	Cr	Prerequisites		Th-Pr	Cr	Prerequisites
<u>ECEN 403-Electrical Design Lab I</u>	(2-2)	3	Tech Writing, ECEN 214, 314, 325	<u>ECEN 404-Electrical Design Lab II</u>	(2-3)	3	ECEN 403
ECEN Elective ^E		3		ENGR/PHIL 482-Ethics & Engineering ^F		3	Sr. Classification
ECEN Elective ^E		3		ECEN Elective ^E		3	
ECEN Elective ^E		3		ECEN Elective ^E		3	
ECEN Elective ^E		3		ECEN Elective ^E		3	
		15				15	

International & Cultural Diversity Elective's^D 1) _____ 2) _____
 see University catalog

- A KINE 198 may be taken S/U or for a regular grade
- B KINE 199 must be taken S/U
- C Select from ENGL 210, 301 (Jr/Sr classification), 241; COMM 205, 243; ENGL 210 is no longer offered at TAMU but we accept transfer course equivalents
- D UCC is University Core Curriculum. Students must select from: POLS 206 & 207 (3 cr. each), American History (6 cr's required), Social Science Elective (3 cr), Visual & Performing Arts Elective (3 cr), and International and Cultural Diversity Elective's (6 cr's required). Some International & Cultural Diversity Electives can also count for Visual & Performing Arts, Social Science or American History. Reference the TAMU UG catalog for the complete listing of approved courses. <http://catalog.tamu.edu/>
- E See advising office for listing of approved electives
- F ENGR/PHIL 482 also fulfills the UCC humanities requirement

Courses in bold must be completed with a C or better
Courses in bold & in italics are Common Body of Knowledge courses; must be completed with a C or better
Any Course with the ECEN prefix is considered upper division. To be admitted to upper division, a 2.75 GPA is required in both the CBK courses and overall GPA.