

Name: _____
 UIN: _____

ELEN Electrical Engineering
Total Credits Required: 128; Catalog Edition #135
 For students entering 2012-2013

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

International & Cultural Diversity Elective's 1) _____ 2) _____

- 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, 241; COMM 205, 243; ENGL 210 is no longer offered at TAMU but ENGL 2311 will transfer in as ENGL 210
- 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 pages 18-20 of the 2012-13 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 & in italics are Common Body of Knowledge courses; must be completed with a C or better
Courses in bold must be completed with a C or better