

Name: \_\_\_\_\_  
 UIN: \_\_\_\_\_

**ELEN Electrical Engineering**  
**Total Credits Required: 128;** Catalog Edition #134  
 For students entering 2011-2012

Freshman							
	Th-Pr	Cr	Prerequisite		Th-Pr	Cr	Prerequisite
<i>ENGL 104 - Composition &amp; 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
American History or another UCC <sup>D</sup>		3		<i>PHYS 208-Electricity &amp; Optics</i>	(3-3)	4	PHYS 218
KINE 198 <sup>A</sup>	(0-2)	1		American History or another UCC <sup>D</sup>		3	
		<u>17</u>		KINE 199 <sup>B</sup>	(0-2)	1	
						<u>18</u>	
Sophomore							
	Th-Pr	Cr	Prerequisite		Th-Pr	Cr	Prerequisite
<b>ECEN 248-Digital System Design</b>	(3-3)	4	UPPER DIVISION	<b>ECEN 214-Electrical Circ. Theory</b>	(3-3)	4	MATH 308c, PHYS 208
<b>MATH 251-Engineering Math III</b>	(3-0)	3	MATH 152	<b>MATH 308-Differential Equations</b>	(3-0)	3	MATH 251
Social Science Elective or another UCC <sup>D</sup>		3		<b>PHYS 222-Modern Physics for Engineers</b>	(3-0)	3	PHYS 208, MATH 308c
Vis. & Perf. Arts elective or another UCC <sup>D</sup>		3		ISEN 302-Economic Analysis of Eng. Proj.	(2-0)	2	
POLS 206 or another UCC <sup>D</sup>		3		POLS 207 or another UCC <sup>D</sup>		3	
		<u>16</u>				<u>15</u>	
Junior							
	Th-Pr	Cr	Prerequisite		Th-Pr	Cr	Prerequisite
<b>ECEN 314-Signals &amp; Systems</b>	(3-1)	3	ECEN 214; MATH 308	<b>ECEN 303-Random Signals &amp; Systems</b>	(3-1)	3	MATH 308
<b>ECEN 322-Electric &amp; Magnetic Fields</b>	(3-1)	3	ECEN 214, MATH 311c	<b>ECEN 350-Comp. Architecture &amp; Design</b>	(3-3)	4	ECEN 248
<b>ECEN 325-Electronics</b>	(3-4)	4	ECEN 314c	<b>ECEN 370-Elec Properties of Materials</b>	(3-1)	3	PHYS 222
<b>MATH 311-Topics in Applied Math I</b>	(3-0)	3	MATH 308	Technical Elective <sup>1</sup>		3	
Technical Writing <sup>C</sup>		3	ENGL 104	ECEN Elective <sup>2</sup>		3	
		<u>16</u>				<u>16</u>	
Senior							
	Th-Pr	Cr	Prerequisites		Th-Pr	Cr	Prerequisites
<b>ECEN 403-Electrical Design Lab I</b>	(2-2)	3	Tech Writing, ECEN 214, 314, 325	<b>ECEN 404-Electrical Design Lab II</b>	(2-3)	3	ECEN 403
ECEN Elective <sup>2</sup>		3		ENGR/PHIL 482-Ethics & Engineering		3	Sr. Classification
ECEN Elective <sup>2</sup>		3		ECEN Elective <sup>2</sup>		3	
ECEN Elective <sup>2</sup>		3		ECEN Elective <sup>2</sup>		3	
ECEN Elective <sup>2</sup>		3		ECEN Elective <sup>2</sup>		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  
 D UCC is University Core Curriculum. Ex: 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 on line course catalog for the complete listing of approved courses. <http://catalog.tamu.edu/pages/19-22> of 2011-2012 UG catalog

**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**

- 1 See advising office for listing of approved electives  
 2 See advising office for listing of approved electives