

Name: _____
 UIN: _____

ELEN Electrical Engineering
Total Credits Required: 128
 For students entering 2010-2011 and later.

Freshman											
	Th-Pr	Cr	Prerequisite		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	HS Chem, 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 ^D		3			<i>PHYS 208-Electricity & Optics</i>	(3-3)	4	PHYS 218			
KINE 198 ^A	(0-2)	1			American History ^D		3				
		<u>17</u>			KINE 199 ^B	(0-2)	1				
							<u>18</u>				
Sophomore											
	Th-Pr	Cr	Prerequisite		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			
Social Science Elective ^D		3			PHYS 222-Modern Physics for Engineers	(3-0)	3	PHYS 208, MATH 308c			
Visual & Performing Arts Elective ^D		3			ISEN 302-Economic Analysis of Eng. Proj.	(2-0)	2				
POLS 206 - American Natl Government		3			POLS 207-State & Local Government		3				
		<u>16</u>					<u>15</u>				
Junior											
	Th-Pr	Cr	Prerequisite		Th-Pr	Cr	Prerequisite		Th-Pr	Cr	Prerequisite
ECEN 314-Signals & Systems	(3-1)	3	ECEN 214; MATH 308		ECEN 303-Randon 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-Electronic Properties of Materials	(3-1)	3	PHYS 222			
MATH 311-Topics in Applied Math I	(3-0)	3	MATH 308		ECEN Elective ²		3				
Technical Writing ^C		3	ENGL 104		Technical Elective ¹		3				
		<u>16</u>					<u>16</u>				
Senior											
	Th-Pr	Cr	Prerequisites		Th-Pr	Cr	Prerequisites		Th-Pr	Cr	Prerequisites
ECEN 403-Electrical Design Lab I	(2-2)	3	Tech Writing, Maj Fld*		ECEN 404-Electrical Design Lab II	(2-3)	3	ECEN 403			
ECEN Elective ²		3			ENGR/PHIL 482-Ethics & Engineering		3				
ECEN Elective ²		3			ECEN Elective ²		3				
ECEN Elective ²		3			ECEN Elective ²		3				
ECEN Elective ²		3			ECEN Elective ²		3				
		<u>15</u>					<u>15</u>				

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 **Per university catalog, 6 credits of International & Cultural Diversity must be taken. However, these courses can also count for Visual & Performing Arts, Social Science or American History. Please see advising office for listing of approved courses.**

Visual Arts & Social Science Electives must be chosen from 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

* Major Field: ECEN 214, 314, 325; Senior Classification