

**ELECTRICAL ENGINEERING CURRICULUM
2012 – 2013**

Freshman Year

1	GNEG 1111	Intro to Engineering I		1	GNEG 1121	Introduction to Engineering II
4	MATH 2554	Calculus I		4	MATH 2564	Calculus II
3	CHEM 1113	Chemistry for Engineers		3	HIST 2003, HIST 2013, or PLSC 2003	
4	PHYS 2054	University Physics I		4	Freshman Science Elective ¹	
<u>3</u>	ENGL 1013	Composition I		<u>3</u>	ENGL 1023	Composition II
15	semester hours			15	semester hours	

Sophomore Year

4	ELEG 2104	Electric Circuits I (with lab)		4	CSCE 2004	Programming Foundations I
4	ELEG 2904	Digital Design (with lab)		4	ELEG 2114	Electric Circuits II (with lab)
4	MATH 2584	Differential Equations		4	MATH 2574	Calculus III
<u>4</u>	Sophomore Science Elective ²			<u>3</u>	Humanities Elective (from University/State Core list)	
16	semester hours			15	semester hours	

Junior Year

4	ELEG 3124	System and Signal Analysis (with lab)		3	Math/Science/Technical Elective ³	
4	ELEG 3214	Electronics I (with lab)		4	ELEG 3224	Electronics II (with lab)
4	ELEG 3704	Applied Electromagnetics (with lab)		4	ELEG 3304	Energy Systems (with lab)
4	ELEG 3924	Microprocessor System Design (with lab)		3	ELEG 3143	Probability & Stochastic Processes
<u> </u>				<u>3</u>	Social Science Elective (from University/State Core list)	
16	semester hours			17	semester hours	

Senior Year

1	ELEG 4061	Electrical Engineering Design I		3	ELEG 4073	Electrical Engineering Design II
3	ELEG	Technical Elective		3	ELEG	Technical Elective
3	ELEG	Technical Elective		3		Technical Elective
3		Engineering Science/Technical Elective ⁴		3		Technical Elective
3	ECON 2013, ECON 2023, or ECON 2143			3		Social Science Elective (from University/State Core list)
<u>3</u>	Fine Arts Elective (from University/State Core list)			<u> </u>		
16	semester hours			15	semester hours	

TOTAL: 125 semester hours

¹ Freshman Science Elective – CHEM 1133/1131L Chemistry for Engineers II or PHYS 2074 University Physics II

² Sophomore Science Elective – If CHEM 1133/1131L Chemistry for Engineers II was taken for Freshman Science Elective, then PHYS 2074 University Physics II; otherwise, if PHYS 2074 University Physics II was taken for Freshman Science Elective, then CHEM 1133/1131L Chemistry for Engineers II, BIOL 1543/1541L Principles of Biology, or BIOL 2213/2211L Human Physiology

³ Math/Science/Technical Elective: Approved Math/Science Elective or another Technical Elective

⁴ Engineering Science/Technical Elective: MEEG 2023 – Introductory Mechanics, MEEG 2303 – Introduction to Materials, MEEG 2403 – Thermodynamics, or another Technical Elective