

6-Year UNDERGRADUATE CURRICULUM PLAN
Bachelor of Science in Electrical Engineering
(POWER Elective Sequence)
Effective 2003-2004 Catalog Year

FALL SEMESTER

SPRING SEMESTER

<u>Course</u>	<u>Title</u>	<u>Units</u>	<u>Course</u>	<u>Title</u>	<u>Units</u>
1st Year					
UNIV 100	University 100	1	MATH 123	Calculus II	4
MATH 122	Calculus I (GE – B2)	4	PHYS 151	Mechanics and Heat (GE-B1b)	4
	G.E. (Category A1,A2)	<u>6</u>		G.E. (Category A3)	<u>3</u>
	TOTAL	11		TOTAL	11
2nd Year					
MATH 224	Calculus III	4	PHYS 152 OR EE 210 & EE 210L		4/4
EE 201	Digital Logic Design	4	EE 200	Trends in EE	1
	GE	<u>3</u>		GE	<u>6</u>
	TOTAL	11		TOTAL	11
3rd Year					
EE 211	Electric Circuits I	3	Math 370A	Applied Mathematics I	3
EE 211L	Electric Circuits Lab	1	EE 380	Engineering Probability 7 Stat.	3
CECS 174	Programming & Problem Solving I	3	ENGR 202	Computer Methods in Engineering	3
	GE	<u>3</u>		GE	<u>3</u>
	TOTAL	10		TOTAL	12
4th Year					
EE 346	Microprocessor Princ. & Appl.	3	PHYS 254	Applied Modern Physics	3
EE 310	Electric Circuits II	3	EE 347	Microprocessor Based System Des.	3
	GE	<u>6</u>	CE 370/ MAE 330	Anal. Mech./ Eng. Thermo. I	3
	TOTAL	12	EE 370	Control Systems	<u>3</u>
				TOTAL	12
5th Year					
EE 330	Analog Electronics Circuits I	4	EE 400D	EE Sem. & Project Design Lab	2
EE 382	Communication System I	3	EE 386	Digital Signal Processing I	3
EE 350	Energy Conversion Principles	<u>3</u>	EE 370L	Control Systems Lab	1
	TOTAL	10	EE 430	Analog Electronic Circuits I	3
			EE 430L	Engineering Electronics II Lab	<u>1</u>
				TOTAL	10
6th Year					
EE 452	Computer App. Power Systems	3	EE EE 462 OR 464	E&M Wireless/ E&M Optics	3
EE ---	Power A.E.	3	EE 450	Electronic Control of Motors	3
EE ---	Power A.E.	3	EE 458*	Design of Power Sys Components	3
	G.E.	<u>3</u>		G.E.	<u>3</u>
	TOTAL	12		TOTAL	12

*Senior Design Project – 2 hours lecture, 3 hour lab

A.E. Approved Power Electives to minimum of 134 units. See advisor for selection of approved elective courses. Note: Other 400 level elective courses must be approved by the Power Elective Sequence Advisor. 500 level elective courses require approval of both the Sequence Advisor and the Associate Dean of Instruction.

TOTAL POWER UNITS

134