

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

SEMESTER 1

<u>Course</u>	<u>Title</u>	<u>Units</u>
UNIV 100	University 100	1
MATH 122	Calculus I (GE – B2)	4
CECS 174	Prog. & Problem Solving I	3
	G.E. (Category A)	<u>2</u>
	TOTAL	<u>17</u>

SEMESTER 2

<u>Course</u>	<u>Title</u>	<u>Units</u>
MATH 123	Calculus II	4
PHYS 151	Mechanics and Heat (GE-B1b)	4
EE 200	Trends in EE	1
EE 201	Digital Logic Design	4
	G.E.	<u>3</u>
	TOTAL	<u>16</u>

FRESHMAN

SOPHOMORE

MATH 224	Calculus III	4
PHYS 152 OR EE210 and EE 210L		
Elec. & Mag. OR Fund. Elec. Circuits and Lab		4/4
EE 346	Microprocessor Princ. & Appl.	3
	G.E.	<u>6</u>
	TOTAL	<u>17</u>

MATH 370A	Applied Mathematics I	3
EE 211	Electric and Electronics Circuits	3
EE 211L	Electric Circuits Lab	1
ENGR 202	Computer Methods in Engineering	3
PHYS 254	Applied Modern Physics	3
EE 347	Microprocessor Based System Des.	<u>3</u>
	TOTAL	<u>16</u>

JUNIOR

EE 310	Electric Circuits II	3
EE 330	Analog Electronics Circuits I	4
EE 350	Energy Conversion Principles	3
CE 370/ MAE 330	Anal. Mech./ Eng. Thermo. I	3
	G.E.	<u>6</u>
	TOTAL	<u>19</u>

EE 380	Engineering Probability & Stats.	3
EE 382	Communication Systems I	3
EE 386	Digital Signal Processing I	3
EE 430L	Engineering Electronics II Lab	1
EE 370	Control Systems	3
EE 430	Analog Electronics Circuits II	<u>3</u>
	TOTAL	<u>16</u>

SENIOR

EE 400D	EE Sem. and Project Design Lab	2
EE 452	Computer Appl. In Power System	3
EE ---	Power A.E.	3
EE ---	Power A.E.	3
	G.E.	<u>6</u>
	Total	<u>17</u>

EE 370L	Control Systems Lab	1
EE 450	Elect. Control of Motors	3
EE 458*	Design of Power Systems Comp.	3
EE 462 OR 464	Electromag. & Appl. to Wireless Systems/ Electromag & Appl. to Electro- Optics	3
	G.E.	<u>6</u>
	TOTAL	<u>16</u>

*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