

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

FALL SEMESTER

<u>Course</u>	<u>Title</u>	<u>Units</u>
UNIV 100	University 100	1
MATH 122	Calculus I (GE – B2)	4
	G.E. (Category A1,A2)	<u>6</u>
	TOTAL	11

SPRING SEMESTER

<u>Course</u>	<u>Title</u>	<u>Units</u>
MATH 123	Calculus II	4
PHYS 151	Mechanics and Heat (GE-B1b)	4
	G.E. (Category A3)	<u>3</u>
	TOTAL	11

1st Year

2nd Year

EE 200	Trends in EE	1
MATH 224	Calculus III	4
EE 201	Digital Logic Design	4
	G.E.	<u>3</u>
	TOTAL	12

PHYS 152 OR EE 210 & EE 210L		4/4
CECS 174	Programming & Problem Solving I	3
	G.E.	<u>3</u>
	TOTAL	10

3rd Year

EE 211	Electric Circuits I	3
EE 211L	Electric Circuits Lab	1
PHYS 254 Applied Modern Physics		3
	G.E.	<u>3</u>
TOTAL	10	

Math 370A	Applied Mathematics I	3
ENGR 202	Computer Methods in Engineering	3
EE 320	Solid State Electronic Devices	3
	G.E.	<u>3</u>
TOTAL	12	

4th Year

EE 310	Electric Circuits II	3
EE 346	Microprocessor Princ. & Appl.	3
EE 330	Analog Electronics Circuits I	4
	G.E.	<u>3</u>
TOTAL	13	

EE 380	Engineering Probability 7 Stat.	3
EE 347	Microprocessor Based System Des.	3
EE 430	Analog Electronic Circuits I	3
EE 430L	Engineering Electronics II Lab	1
TOTAL	10	

5th Year

CE 370/ MAE 330	Anal. Mech./ Eng. Thermo. I	3
EE 350	Energy Conversion Principles	3
EE 332	Digital Elect. Circuits	3
	G.E.	<u>3</u>
TOTAL	12	

EE 370	Control Systems	3
EE 386	Digital Signal Processing I	3
EE 462 OR 464	E&M Wireless/ E&M Optics	3
EE 382	Communication System I	<u>3</u>
TOTAL	12	

6th Year

EE 400D	EE Sem. & Project Design Lab	2
EE 435*	Microelectronics	3
EE 435L*	Microelectronics Laboratory	1
EE ---	Analog/Digital A.E.	3
	G.E.	<u>6 or 3</u>
TOTAL	11 or 12	

EE 370L	Control Systems Lab	1
EE 301*	Sequential Circuit Design	3
EE 301L*	Sequential Circuit Design Lab	1
EE 447**	Design of Digital System	3
	G.E.	<u>3 or 6</u>
TOTAL	11 or 10	

*Either (EE 301 & 301L) or (EE 435 & 435L) is required.

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

A.E. Approved Analog/Digital Electives to minimum of 135 units. See advisor for selection of approved elective courses. Note: Other 400 level elective courses must be approved by the Analog/Digital Elective Sequence Advisor. 500 level elective courses require approval of both the Sequence Advisor and the Associate Dean of Instruction.

TOTAL Analog/Digital UNITS 135