

4-Year UNDERGRADUATE CURRICULUM PLAN
Bachelor of Science in Electrical Engineering
 (ANALOG and DIGITAL ELECTRONICS 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>
FRESHMAN					
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
CECS 174	Prog. & Problem Solving I	3	EE 200	Trends in EE	1
	G.E. (Category A)	<u>2</u>	EE 201	Digital Logic Design	4
	TOTAL	<u>17</u>		G.E.	<u>3</u>
				TOTAL	<u>16</u>
SOPHOMORE					
MATH 224	Calculus III	4	ENGR 202	Computer Methods in Engineering	3
PHYS 152 OR EE 210 & EE 210L			MATH 370A	Applied Mathematics I	3
Elec. & Mag. OR Elec. Circuits and Lab		4/4	EE 211	Electric Circuits I	3
EE 346	Microprocessor Principles & Appl	3	EE 211L	Electric Circuits Lab	1
	G.E.	<u>6</u>	EE 320	Solid State Electronic Devices	3
	TOTAL	<u>17</u>	PHYS 254	Applied Modern Physics	<u>3</u>
				TOTAL	<u>16</u>
JUNIOR					
EE 310	Electric Circuits II	3	CE 370	Analytical Mechanics or	
EE 330	Analog Electronics Circuits I	4	MAE 330	Engineering Thermodynamics I	3
EE 350	Energy Conversion Principles	3	EE 430	Analog Electronic Circuit I	3
EE 347	Microprocessor Based System Des.	3	EE 382	Communication System I	3
	G.E.	<u>6</u>	EE 370	Control Systems	3
	TOTAL	<u>19</u>	EE 380	Engineering Probability & Stats.	3
			EE 430L	Engineering Electronics II Lab	1
				TOTAL	<u>16</u>
SENIOR					
EE 370L	Controls Systems Lab	1	EE 462 OR 464	Electromag. & Appl. to	
EE 400D	EE Sem. & Project Design Lab	2		Wireless Systems/Electromag.	
EE 435*	Microelectronics	3		& Appl. To Electro-Optics	3
EE 332	Digital Elect. Circuits	3	EE 301*	Sequential Circuit Design	3
EE 435L*	Microelectronics Laboratory	1	EE 301L*	Sequential Circuit Design Lab	1
	G.E.	<u>2 Or 6</u>	EE ---	Analog/Digital A.E.	3
	TOTAL	<u>15 Or 16</u>	EE 447**	Design of Digital System	3
				G.E.	<u>6 Or 9</u>
				TOTAL	<u>16 Or 15</u>

*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 Emphasis Area Advisor. 500 level elective courses require approval of both the Emphasis Advisor and the Associate Dean of Instruction.

TOTAL ANALOG AND DIGITAL ELECTRONICS UNITS 135