

4-Year UNDERGRADUATE CURRICULUM PLAN  
**Bachelor of Science in Electrical Engineering**  
 (CONTROLS 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>
<b>FRESHMAN</b>					
UNIV 100	University 100	1	MATH 123	Calculus II	4
<b>MATH 122</b>	<b>Calculus I (GE – B2)</b>	<b>4</b>	<b>PHYS 151</b>	<b>Mechanics and Heat (GE-B1b)</b>	<b>4</b>
CECS 174	Program & Problem Solving I	3	EE 200	Trends in Electrical Engineering	1
	<b>G.E.(Category A)</b>	<b><u>2</u></b>	EE 201	Digital Logic Design	4
	TOTAL	17		<b>G.E.</b>	<b><u>3</u></b>
				TOTAL	16
<b>SOPHOMORE</b>					
MATH 224	Calculus III	4	MATH 370A	Applied Mathematics I	3
PHYS 152 OR EE 210 AND EE 210L			PHYS 254	Applied Modern Physics	3
Elec. & Mag. OR Fund. Elec. Circuits and Lab		4/4	EE 211	Electric & Electronic Circuits	3
EE 346	Microprocessor Princ. & Appl.	3	EE 211L	Electric Circuits Lab	1
	<b>G.E.</b>	<b><u>6</u></b>	ENGR 202	Computer Methods in Eng.	3
	TOTAL	17	EE 347	Microprocessor Based System Des.	<u>3</u>
				TOTAL	16
<b>JUNIOR</b>					
EE 310	Electrical Circuits II	3	EE 370	Control Systems	3
EE 330	Analog Electronics Circuits I	4	EE 380	Engineering Probability & Stats.	3
EE 350	Energy Conversion Principles	3	EE 382	Communications Systems I	3
CE 370/MAE 330	Anal. Mech./ Eng. Thermo. I	3	EE 386	Digital Signal Processing I	3
	<b>G.E.</b>	<b><u>6</u></b>	EE 430	Analog Electronic Circuits II	3
	TOTAL	19	EE 430L	Engineering Electronics II Lab	<u>1</u>
				TOTAL	16
<b>SENIOR</b>					
EE 370L	Control Systems Lab	1	EE 462 or 464	Electromag. & Appl. to Wireless Systems/Electromag.	
EE 400D	EE Sem. & Project Design Lab	2		& Appl. to Electro-Optics	3
EE ---	Control A.E.	6	EE 470	Digital Control	3
EE 450	Electronic Control of Motors	3	EE 471*	Design of Control Systems 3	
	<b>G.E.</b>	<b><u>6</u></b>		<b>G.E.</b>	<b><u>6</u></b>
	TOTAL	18		TOTAL	15

\*Senior Design Project- 2 hours lecture, 3 hours lab

A.E. Approved Control 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 Control Elective Sequence Advisor. 500 level elective courses require approval of both the Sequence Advisor and the Associate Dean of Instruction.

TOTAL CONTROL UNITS: 134