

**4-Year UNDERGRADUATE CURRICULUM PLAN**  
**Effective 2003/2004 Catalog Year**  
**COMPUTER ENGINEERING (BS02)**

COURSE	UNITS	COURSE	UNITS
<b>1<sup>st</sup> YEAR</b>			
UNIV 100 University & Your Future	1	CECS 228 Discrete Structures I	3
CECS 174 Programming & Problem Solving I	3	CECS 274 Programming & Problem Solving II	3
CECS 201 Digital Logic Design I	3	MATH 222 Intermediate Calculus	4
MATH 122 Calculus I ( <b>GE – Cat. B2</b> )	4	PHYS 151 Mechanics & Heat ( <b>GE – Cat. B1b</b> )	4
<b>GE – Cat. A2</b> (Oral Communications)	3	<b>GE – Cat. A3</b> (Critical Thinking)	3
ENGL 100 Composition ( <b>GE – Cat. A1</b> )	<u>3</u>		
	17		<u>17</u>
<b>2<sup>nd</sup> YEAR</b>			
CECS 261 Computing with Java	3	CECS 301 Digital Logic Design II	3
CECS 277 Programming & Problem Solving III	3	CECS 311 Data Acquisition Processing	3
EE 380 Engineering Probability & Statistics	3	CECS 340 Discrete Event Sys Modeling & Sim	3
or MATH 380 Probability & Statistics		MATH 323 Intro to Numerical Analysis	4
PHYS 152 Electricity & Magnetism	4	General Education	<u>3</u>
( <b>GE – Cat. B1b</b> )			16
or EE 210+210L - Fund of Electric Circuits ( <b>No GE credit</b> )			
General Education	<u>3</u>		
	16		
<b>3<sup>rd</sup> YEAR</b>			
CECS 346 Microprocessors & Controllers I	4	CECS 347 Microprocessors & Controllers II	3
MATH 370A Applied Math I	3	CECS 360 Integrated Circuit Design Software	3
Approved Elective	3	CECS 440 Computer Architecture	3
General Education	6	EE 386 Digital Signal Processing	3
	<u>15</u>	General Education	<u>6</u>
			18
<b>4<sup>th</sup> YEAR</b>			
CECS 326 Operating Systems	4	CECS 443 Software Engineering	3
CECS 447 Microprocessors & Controllers III	3	CECS 460B System on Chip Design II	3
CECS 460A System on Chip Design I	3	Approved Elective	3
Approved Elective	3	General Education	6
General Education	<u>3</u>		
	16		<u>15</u>

**Clarification:** Computer Engineering majors must take a minimum of 9 units in GE Category B with B1a waived. They can fulfill that GE requirement by taking MATH 122, PHYS 151, and PHYS 152. The minimum unit count to complete this degree is 129 **if** students maximize the double counting by taking PHYS 152. Students can earn both Cat. B and capstone credit by taking ENGR 340I or ENGR 370I.

**This four-year curriculum plan is *unofficial*. Requirements may differ depending upon the year you enter the major. Contact an undergraduate advisor about your specific requirements.**