

**ADVISING ROADMAP TO COMPLETE THE Computer Engineering DEGREE (CECSBS02) IN SIX YEARS**  
 129 UNITS REQUIRED Computer Engineering and Computer Science Department 2004/2005

Semester 1

Course	Units
University 100	1
Composition or Oral Communication	3
General Education	3
CECS 174 Prog & Prob Solv I	3
<b>TOTAL UNITS</b>	<b>10</b>

Semester 2

Course	Units
Oral Communication or Composition	3
Math 122 Calculus I <b>(GE-B2)</b>	4
CECS 201 Digital Logic Design I	3
General Education	3
<b>TOTAL UNITS</b>	<b>13</b>

Semester 3

Course	Units
Critical Thinking	3
CECS 274 Prog & Prob Solv II	3
Math 222 Intermediate Calculus	4
<b>TOTAL UNITS</b>	<b>10</b>

Semester 4

Course	Units
Math 380 or EE 380 Prob & Statistics	3
CECS 228 Discrete Structures	3
CECS 277 Prog & Prob Solv III	3
<b>TOTAL UNITS</b>	<b>9</b>

Semester 5

Course	Units
Phys 151 Mech & Heat <b>(GE-B1b)</b>	4
CECS 261 Java	3
CECS 340 Discrete Event Sys Modeling	3
<b>TOTAL UNITS</b>	<b>10</b>

Semester 6

Course	Units
Phys 152 E&M <b>(GE-B3)</b> or EE 210+L Fund of Elec Ckts	4
CECS 301 Digital Logic Design II	3
CECS 311 Data Acq/Proc/Display	3
<b>TOTAL UNITS</b>	<b>10</b>

Semester 7

Course	Units
General Education	3
Math 323 Intro to Numerical Methods	4
CECS 346 Embedded Processors I	3
Math 370A Applied Math I	3
<b>TOTAL UNITS</b>	<b>13</b>

Semester 8

Course	Units
General Education	3
CECS 326 Operating Systems	3
CECS 347 Embedded Processors II	3
CECS 440 Computer Architecture	3
<b>TOTAL UNITS</b>	<b>12</b>

Semester 9

Course	Units
General Education	3
EE 386 Digital Signal Processing	3
CECS 447 Embedded Processors III	3
Major Elective	3
<b>TOTAL UNITS</b>	<b>12</b>

Semester 10

Course	Units
CECS 360 IC Software Design	3
CECS 443 Software Engineering	3
General Education	3
GE Capstone Course	
<b>TOTAL UNITS</b>	<b>12</b>

Semester 11

Course	Units
GE Capstone class	3
CECS 460A System on Chip Design I	3
Major Elective	3
<b>TOTAL UNITS</b>	<b>9</b>

Semester 12

Course	Units
GE Capstone course	3
CECS 460B System on Chip Design II	3
Major Elective	3
<b>TOTAL UNITS</b>	<b>9</b>

Engineering students may waive six units of General Education.  
 This program can be completed in 129 units only if the student completes PHYS 152 to meet the GE requirement and waives Categories B.1.a and D.2.