

**ADVISING ROADMAP TO COMPLETE THE Computer Science DEGREE (CECSBS01) IN FIVE YEARS**  
 129 UNITS REQUIRED Computer Engineering & Computer Science Department 2004/2005

Semester 1

Course	Units
University 100	1
Composition or Oral Communication	3
General Education	3
Math 122 Calculus I (GE B.2)	4
CECS 174 Prog & Problem Solv I (KPE Activity class)	(1)
<b>TOTAL UNITS</b>	<b>14-(15)</b>

Semester 2

Course	Units
Oral Communication or Composition	3
Math 222 Intermediate Calculus	4
CECS 201 Digital Logic Design	3
CECS 274 Prog & Problem Sov II	3
<b>TOTAL UNITS</b>	<b>13</b>

Semester 3

Course	Units
PHYS 151 Mech, Heat (GE B.1.b)	4
CECS 228 Discrete Structures I	3
CECS 277 Prog & Problem Solv III	3
Math 380 OR EE 380 Prob, Stat	3
<b>TOTAL UNITS</b>	<b>13</b>

Semester 4

Course	Units
PHYS 152 E&M (GE B3) OR EE210+L (No GE)	4
Critical Thinking	3
CECS 261 Java OR CECS 381 VB.NET	3
CECS 340 Dis Event Sys Model	3
<b>TOTAL UNITS</b>	<b>13</b>

Semester 5

Course	Units
General Education	3
General Education	3
ENGL 317 OR ENGR 310 Communica	3
CECS 323 Database Fundamentals	3
<b>TOTAL UNITS</b>	<b>12</b>

Semester 6

Course	Units
General Education	3
CECS 325 Comp Org and Asmb Lan	3
Math 247 Linear Algebra	3
Engr 350 Computers, Ethics	3
<b>TOTAL UNITS</b>	<b>12</b>

Semester 7

Course	Units
General Education	3
Major Elective	3
Major Elective (Sci Course - GE B1a)	4
CECS 326 Operating Systems	3
<b>TOTAL UNITS</b>	<b>13</b>

Semester 8

Course	Units
GE Capstone course	3
Major Elective	3
CECS 328 Discrete Structures II	3
One of: CECS 472, 474, 476	3
<b>TOTAL UNITS</b>	<b>12</b>

Semester 9

Course	Units
General Education	3
CECS 440 Computer Architecture	3
CECS 424 Prog Languages	3
GE Capstone Course	3
<b>TOTAL UNITS</b>	<b>12</b>

Semester 10

Course	Units
General Education	3
Major Electives	6
CECS 443 Software Engineering	3
GE Capstone Course	3
<b>TOTAL UNITS</b>	<b>15</b>