

**ROADMAP TO COMPLETE THE COMPUTER SCIENCE DEGREE (CECSBS01) IN FOUR YEARS**

129 UNITS REQUIRED

Computer Engineering and Computer Science Department 04/05

## Semester 1

Course	Units
General Education	3
Composition or Oral Communication	3
Math 122 Calculus I (GE - B2)	4
CECS 174 Prog & Problem Sol I	3
CECS 201 Digital Logic Design	3
<b>TOTAL UNITS</b>	<b>16</b>

## Semester 2

Course	Units
Oral Communication or Composition	3
University 100	1
CECS 228 Discrete Structures I	3
CECS 274 Prog & Problem Sol II	3
Math 222 Intermediate Calculus	4
<b>TOTAL UNITS</b>	<b>14</b>

## Semester 3

Course	Units
Critical Thinking	3
Phy 151 Mech & Heat (GE - B1b)	4
CECS 261 Java OR CECS 381 VB.NET	3
CECS 277 Prog & Problem Sol III	3
Math 380 OR EE 380 Prob & Stat	3
<b>TOTAL UNITS</b>	<b>16</b>

## Semester 4

Course	Units
Phys 152 E&M (GE - B3) OR EE210+L (No GE)	4
General Education	3
CECS 323 Database Fundamentals	3
CECS 325 Comp Org and Asmb Lan	3
CECS 340 Dis Event Sys Model	3
<b>TOTAL UNITS</b>	<b>16</b>

## Semester 5

Course	Units
GE Capstone course	3
General Education	3
Major Elective (Sci Course - GE B1a)	4
CECS 326 Operating Systems	3
Engl 317 OR Engr 310 (Communicatio	3
<b>TOTAL UNITS</b>	<b>16</b>

## Semester 6

Course	Units
GE Capstone course	3
General Education	3
Major Elective	3
CECS 328 Discrete Structures II	3
Math 247 Linear Algebra	3
Engr 350 Computers, Ethics	3
<b>TOTAL UNITS</b>	<b>18</b>

## Semester 7

Course	Units
GE Capstone course	3
General Education	3
Major Electives	6
CECS 424 Prog Languages	3
CECS 440 Comp Architecture	3
<b>TOTAL UNITS</b>	<b>18</b>

## Semester 8

Course	Units
General Education	6
Major Elective	3
CECS 443 Software Engineering	3
One of: CECS 472, 474, 476	3
<b>TOTAL UNITS</b>	<b>15</b>