

ROADMAP TO COMPLETE THE COMPUTER ENGINEERING DEGREE (CECSBS02) 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
TOTAL UNITS	16

Semester 2

Course	Units
Oral Communication or Composition	3
University 100	1
MATH 222 Intermediate Calculus	4
PHYS 151 Mech & Heat (GE-B1b)	4
CECS 274 Prog & Prob Solv I	3
TOTAL UNITS	15

Semester 3

Course	Units
Critical Thinking	3
PHYS 152 E&M (GE-B3) or EE210+L Fund of Elec Circuits	4
EE 380 or MATH 380 Prob & Stat	3
CECS 228 Discrete Structures	3
CECS 261 Computing with JAVA	3
TOTAL UNITS	16

Semester 4

Course	Units
General Education	3
CECS 277 Prog & Prob Sol III	3
CECS 301 Digital Logic Design II	3
CECS 311 Data Acq/Proc/Display	3
CECS 340 Dis Event Sys & Mod	3
TOTAL UNITS	15

Semester 5

Course	Units
General Education	3
General Education	3
MATH 370A Applied Math I	3
EE 386 Digital Signal Processing	3
CECS 346 Embedded Processors I	3
CECS 326 Operating Systems	3
TOTAL UNITS	18

Semester 6

Course	Units
GE Capstone course	3
MATH 323 Numerical Analysis	4
CECS 347 Embedded Processors II	3
CECS 360 IC Design Software	3
General Education	3
TOTAL UNITS	16

Semester 7

Course	Units
GE Capstone course	3
Major Electives	6
CECS 440 Computer Architecture	3
CECS 447 Embedded Processors III	3
ECES 460A System-on-Chip Design I	3
TOTAL UNITS	18

Semester 8

Course	Units
GE Cap[stone course	3
General Education	3
CECS 443 Software Engineering	3
CECS 460B System-on-Chip Design II	3
Major Elective	3
TOTAL UNITS	15

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.