COMPUTER ENGINEERING 2011/13 DEGREE (180 UNITS) REQUIREMENT CHECKLIST

Lower Division (21)

- _____ CMPS 150 (1) and CMPS 221 Programming Fundamentals
- _____ CMPS 223 Data Structures and Algorithms
- _____ CMPS 224 Assembly Language Programming
 - ____ CMPS 295 Discrete Structures

Upper Division required (40)

- _____ CENG 304 Linear Systems
- _____ CENG 307 Analog Circuits
- _____ CENG 320 Digital Circuits
- _____ CMPS 321 Computer Architecture
- _____ CENG 322 Digital Design with VHDL
- _____ CMPS 360 Operating Systems
- _____ CENG 420 Embedded Systems
- _____ CENG 490 Senior Project in Computer Engineering

Upper Division CENG Electives (two courses: select 1 course from each of two different areas below) (10)

- _____ CENG 422 Digital Signal Processing or CENG 423 Digital Communications
- _____ CENG 457 Robotics or CENG 432 Instrumentation, Control and Data Acquisition
- _____ CENG 446 Image Processing or CENG 447 Computer Vision

Cognate Requirements (43)

- _____ MATH 201 Calculus I (also satisfies B4)
- _____ MATH 202 Calculus II
- _____ MATH 203 Calculus III
- _____ MATH 204 Calculus IV
- PHYS 221 Classical Physics I Mechanics (6 also satisfies B1, B3)
- _____ PHYS 222 Classical Physics II Thermodynamics and E&M (6)
- _____ PHYS 223 Optics and Modern Physics (6)
- _____ PHYS/ENGR 207 Electric Circuits

Lower Division General Education (50)

- _____ A1 COMM 108
- _____ A2 ENGL 110
 - A3 waived at the time the CENG major takes CMPS 295 $\,$
- B2 BIOL 100
- _____ C1, _____ C2, _____ C3
- _____ US History Requirement

____ D1

- _____ D2 ECON 202 (Macroeconomics)
- D3 PLSI 101 (also satisfies State Government Requirement)

Upper Division General Education and University Electives (16)

- (Theme I waived for CMPS and CENG majors)
 - _____ Theme II PHIL 316 (Ethics)
 - _____ Theme III
 - _____ Gender, Race, or Ethnicity (GRE)
 - _____ University Elective (1)