

COMPUTER ENGINEERING (EE CONCENTRATION) 2011/13 DEGREE REQUIREMENT CHECKLIST
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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 (50)

- _____ CENG 304 Linear Systems
- _____ CENG 306 Complex Analysis in Engineering
- _____ CENG 307 Analog Circuits
- _____ CENG 320 Digital Circuits
- _____ CMPS 321 Computer Architecture
- _____ CENG 322 Digital Design with VHDL
- _____ CENG 330 Signals and Systems
- _____ CMPS 360 Operating Systems
- _____ CENG 420 Embedded Systems
- _____ CENG 490 Senior Project in Computer Engineering

Upper Division CENG Electives (select 2 courses from one area and 1 course from remaining areas) (20)

- _____
- _____ CENG 422 Digital Signal Processing **or** CENG 423 Digital Communications
- _____ CENG 457 Robotics **or** CENG 432 Instrumentation, Control and Data Acquisition **or** CENG 434 Introduction to Control Theory
- _____ CENG 446 Image Processing **or** CENG 447 Computer Vision

Cognate Requirements (48)

- _____ MATH 201 Calculus I (also satisfies B4)
- _____ MATH 202 Calculus II
- _____ MATH 203 Calculus III
- _____ MATH 204 Calculus IV
- _____ MATH 330 Linear Algebra
- _____ 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 (15)

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