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COMPUTER ENGINEERING 2013-15 DEGREE REQUIREMENT CHECKLIST
         QUARTER UNITS: 180   ABET CORE UNITS: 134
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Lower Division (24)

_____ ECE 160 Introduction to Engineering (3)
_____ 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 (42)

_____ ECE 304 Signals & Systems I
_____ ECE 307 Analog Circuits
_____ ECE 320 Digital Circuits
_____ CMPS 321 Computer Architecture
_____ ECE 322 Digital Design with VHDL
_____ CMPS 360 Operating Systems
_____ ECE 420 Embedded Systems
_____ ECE 490A Senior Project I (3) and ECE 490B Senior Project II (4)

Upper Division Computer Engineering Electives (three courses: select 1 course from each of the areas below) (15)

_____ ECE 422 **or** ECE 423 **or** ECE 425 **or** ECE 426
_____ ECE 457 **or** ECE 432
_____ ECE 446 **or** ECE 447

Cognate Requirements (53)

_____ MATH 201/231 Calculus I (also satisfies B4)
_____ MATH 202/232 Calculus II
_____ MATH 203/233 Calculus III
_____ MATH 204/234 Calculus IV
_____ MATH 230/330 Linear Algebra
_____ MATH 340 Probability
_____ 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 (37)

_____ CSUB 101 (2)
_____ A1 - COMM 108
_____ A2 - ENGL 110
        A3 - waived for Computer Engineering
        B2 - waived by NSME B-Comm (04-19-2013)
_____ C1, _____ C2
        C3 - doublecounted by US History - CARS (03-21-2013)
_____ US History Requirement
        Area D - 5 units waived by CARS (03-21-2013)
_____ D2 ECON 201 or ECON 202
_____ D3 PLSI 101 (also satisfies State Government Requirement)

Upper Division General Education and University Electives (8-10)

        Theme I - substituted by ECE 490A&B - Senior Project I&II above
_____ Theme II - PHIL 316 (Ethics)
        Theme III - waived by CARS (03-21-2013)
_____ Gender, Race, and Ethnicity (GRE) (3-5)
        COMM 304 Recommended **or** pass GWAR exam (0)