

| |
|---|
| COMPUTER SCIENCE (CS TRACK) 2013-15 DEGREE REQUIREMENT CHECKLIST QUARTER UNITS: 180 ABET CORE UNITS: 125 |
|---|

Lower Division (26)

- _____ CMPS 150 (1) **and** CMPS 221 Programming Fundamentals
- _____ CMPS 222 Object-Oriented Programming
- _____ CMPS 223 Data Structures and Algorithms
- _____ CMPS 224 Assembly Language Programming
- _____ CMPS 295 Discrete Structures

Upper Division required (52)

- _____ CMPS 312 Algorithm Analysis and Design
- _____ CMPS/ECE 320 Digital Circuits
- _____ CMPS 321 Computer Architecture
- _____ CMPS 335 Software Engineering
- _____ CMPS 342 Database Systems
- _____ CMPS 350 Programming Languages
- _____ CMPS 356 Artificial Intelligence
- _____ CMPS 360 Operating Systems
- _____ CMPS 376 Computer Networks
- _____ CMPS 490A Senior Project I (3) and CMPS 490B Senior Project II (4)

Upper Division Elective (select 2 400-level course or CMPS 371) (10)

_____, _____

Additional Units (select 3 units of general university courses) (3)

Cognate Requirements (37)

- _____ MATH 201/231 Calculus I (also satisfies B4)
- _____ MATH 202/232 Calculus II
- _____ MATH 203/233 Calculus III
- _____ 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)

Lower Division General Education (42)

- _____ CSUB 101 (2)
- _____ A1 - COMM 108
- _____ A2 - ENGL 110
- _____ A3
- _____ 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 (10)

- _____ Theme I - substituted by CMPS 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)
- _____ COMM 304 Recommended **or** pass GVAR exam (0)