

Computer Science (Traditional CS) 2013-15 Advising Checklist Quarter Units: 180 Core Units: 124

Lower Division Core (26)

- _____ CMPS 150 – Introduction to Unix (1) (or CMPS 215 – Unix Programming Environment)
- _____ CMPS 221 – Programming Fundamentals (grade of C- or better)
- _____ CMPS 222 – Object-Oriented Programming (grade of C- or better)
- _____ CMPS 223 – Data Structures and Algorithms (grade of C- or better)
- _____ CMPS 224 – Assembly Language Programming
- _____ CMPS 295 – Discrete Structures

Upper Division Core (51)

- _____ CMPS 312 – Algorithm Analysis and Design
- _____ 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)
- _____ CMPS 490B – Senior Project II (3)

Upper Division Electives (select 2 400-level courses or 1 400-level and CMPS 371) (10)

Cognate Requirements (42)

- _____ MATH 201 or 231 – Calculus I (grade of C- or better)
- _____ MATH 202 or 232 – Calculus II (grade of C- or better)
- _____ MATH 203 or 233 – Calculus III (grade of C- or better)
- _____ MATH 230 or 330 – Linear Algebra
- _____ MATH 340 – Probability Theory
- _____ PHYS 221 – Classical Physics I - Mechanics (6)
- _____ PHYS 222 – Classical Physics II - Thermodynamics and E&M (6)
- _____ PHIL 316 – Professional Ethics

Additional Units (any university units) (0-6)

General Education and University Requirements (45-52)

- _____ Foreign Language Requirement – 2 yrs. high school or 1 college course
- _____ CSUB 101 (2)
- _____ A1 – Recommend COMM 108 (grade of C or better)
- _____ A2 – ENGL 110 (grade of C or better)
- _____ A3 (grade of C or better)
 - B1/B3 – Satisfied by PHYS 221
 - B2/B3 – Waived for Computer Science majors
 - B4 – Satisfied by MATH 201 or MATH 231 or higher with grade of C or better
- _____ C1
- _____ C2, C4, or C5
 - C3 – US History double-counts for C3 for Computer Science majors
- _____ US History for American Institutions (AI) requirement
- _____ D3/Government for AI requirement – Recommend PLSI 101
 - Area D – 5 units waived for Computer Science majors
- _____ D1, D2, D4, or D5
 - Theme 1 – Met by completing CMPS 490A & B
 - Theme 2 – Satisfied by PHIL 316
 - Theme 3 – Waived for Computer Science majors
- _____ Gender, Race, and Ethnicity (GRE) (3-5)
- _____ GVAR – Pass exam or take course (COMM 304 – Technical Writing recommended for course)