## Computer Science (Traditional CS) 2016-18 Advising Checklist
### Semester Units: 120    Core Units: 89-90

Lower Division Core (16)
- _____ CMPS 2010 – Programming I: Programming Fundamentals (4) (grade of C- or better)
- _____ CMPS 2020 – Programming II: Data Structures and Algorithms (4) (grade of C- or better)
- _____ CMPS 2120 – Discrete Structures (4)
- _____ CMPS 2240 – Computer Architecture I: Assembly Language Programming (4)

Upper Division Core (39)
- _____ CMPS 3120 – Algorithm Analysis (3)
- _____ CMPS 3140 – Theory of Computation (3)
- _____ CMPS 3240 – Computer Architecture II: Organization (4)
- _____ CMPS 3350 – Software Engineering (4)
- _____ CMPS 3420 – Database Systems (4)
- _____ CMPS 3500 – Programming Languages (3)
- _____ CMPS 3560 – Artificial Intelligence (3)
- _____ CMPS 3600 – Operating Systems (4)
- _____ CMPS 3620 – Computer Networks (4)
- _____ CMPS 3640 – Distributed and Parallel Computation (3)
- _____ CMPS 4910 – Senior Project I (2)
- _____ CMPS 4918 – Senior Project II (2)

Upper Division Electives (2 courses, at least one course must be at 4000-level. See catalog for complete list) (8)
- _____
- _____

Cognate Requirements (26-27)
- _____ MATH 2510 or 2310 – Calculus I (4) (grade of C- or better)
- _____ MATH 2520 or 2320 – Calculus II (4) (grade of C- or better)
- _____ MATH 3200 – Probability Theory (4)
- _____ PHYS 2210 – Calculus-Based Physics I (4) (grade of C- or better)
- _____ PHYS 2220 – Calculus-Based Physics II (4) (grade of C- or better)
- _____ Math/Science Elective Course (3-4) (see catalog for complete list)
- _____ PHIL 3318 – Professional Ethics (3)

Additional Units (any university units) (1-5)
- _____

General Education and University Requirements (26-35)
- _____ First Year Seminar I – CSUB 1009 (1)
- _____ First Year Seminar II – CSUB 1019 (1)
- _____ A1 – COMM 1008 (3) (grade of C or better)
- _____ A2 – ENGL 1109 (3) (grade of C or better)
- _____ A3 – Critical Thinking – Recommend SCI 1409 (Math/Sci elective course) (0-3) (grade of C or better)
- A4 – Satisfied by MATH 2310 or 2510 (or higher) with grade of C or better
- B1/B3 – Satisfied by PHYS 2210
- B2/B3 – Waived for Computer Science majors
- _____ C1 – Arts (3)
- _____ C2 – Humanities (3)
- _____ US History for American Institutions (AI) requirement (3)
- _____ Government for AI requirement – Recommend PLSI 1018 (3)
- _____ Area D (1st course) (3)
- Area D (2nd course) – 3 units waived for Computer Science majors
- _____ SELF – Recommend taking course that double-counts for another GE requirement (0-3)
- _____ Junior Year Diversity Reflection (JYDR) (3)
- UD Area B – Not required for NSME majors
- UD Area C – Satisfied by PHIL 3318
- UD Area D – Waived for Computer Science majors
- Capstone – Satisfied by CMPS 4928
- _____ GWAR – Pass exam or get C or better in course (0-3)