| **Computer Science (Computer Information Systems) 2013-15 Catalog Advising Checklist**<br>**Quarter Units: 180**          **Core Units: 112** | Name: _____<br>ID #: _____ |
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**Lower Division Core (26)**

_____ CMPS 150 - Introduction to Unix (1) [see Q2S notes]
_____ CMPS 211 - Internet Programming and Web Design [CMPS 2680]
_____ CMPS 221 - Programming Fundamentals (grade of C- or better) [see Q2S notes]
_____ CMPS 222 - Object-Oriented Programming (grade of C- or better) [see Q2S notes]
_____ CMPS 223 - Data Structures and Algorithms (grade of C- or better) [see Q2S notes]
_____ CMPS 295 - Discrete Structures [CMPS 2120]

**Upper Division Core (51)**

_____ CMPS 312 - Algorithm Analysis and Design [CMPS 3120]
_____ CMPS 335 - Software Engineering [CMPS 3350]
_____ CMPS 342 - Database Systems [CMPS 3420]
_____ CMPS 350 - Programming Languages [CMPS 3500]
_____ CMPS 356 - Artificial Intelligence [CMPS 3560]
_____ CMPS 360 - Operating Systems [CMPS 3600]
_____ CMPS 371 - Computer Graphics [CMPS 3480]
_____ CMPS 376 - Computer Networks [CMPS 3620]
_____ CMPS 394 - Client, Server, Internet, and Hand-held Device Progr. [CMPS 3390]
_____ CMPS 490A - Senior Project I (3) [CMPS 4910]
_____ CMPS 490B - Senior Project II (3) [CMPS 4928]

**Advanced Elective Course (5)** - Choose from CMPS 435, 442, 450, 456, 460, 471, 476

_____ CMPS

**General Elective Courses (20)**

Choose from CMPS 215, 216, 224, or any other 300-/400-level CMPS or ECE course.

A minor may be used to offset some elective units with consent of a department advisor.

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**Cognate Requirements (15)**

_____ MATH 140 - Elementary Statistics (or MATH 201 or higher) [MATH 1209 or 2200]
_____ MATH 192 - Pre-calculus II (or MATH 201 or higher) {MATH 1040 or 1060]
_____ PHIL 316 - Professional Ethics [PHIL 3318]

**Additional Units (any university units) (8-13)**

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**General Education and University Requirements (50-57)**

_____ Foreign Language Requirement - 2 yrs. high school or 1 college course
_____ CSUB 101 - Introduction to CSUB (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
        B2/B3 - Waived for Computer Science majors
        B4 - Satisfied by MATH 140 or 192 (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)
_____ GWAR - Pass exam or get C- or better incourse (COMM 304 - Tech. Writing recommended for course)

**Advising Notes:**