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

Name: _____
ID #: _____

Lower Division Core (26)

_____ CMPS 150 - Introduction to Unix (1) [see Q2S notes]
_____ 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 224 - Assembly Language Programming [CMPS 2240]
_____ CMPS 295 - Discrete Structures [CMPS 2120]

Upper Division Core (51)

_____ CMPS 312 - Algorithm Analysis and Design [CMPS 3120]
_____ ECE 320 - Digital Circuits [ECE 3200 or Substitute with CMPS 3140 or CMPS 3640]
_____ CMPS 321 - Computer Architecture [CMPS 3240]
_____ 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 376 - Computer Networks [CMPS 3620]
_____ CMPS 490A - Senior Project I (3) [CMPS 4910]
_____ CMPS 490B - Senior Project II (3) [CMPS 4928]

Upper Division Electives (10)

Select two 400-level courses or one 400-level course and CMPS 371 [CMPS 3480]

_____ CMPS
_____ CMPS

Cognate Requirements (42)

_____ MATH 201 or 231 - Calculus I (grade of C- or better) [see Q2S notes]
_____ MATH 202 or 232 - Calculus II (grade of C- or better) [see Q2S notes]
_____ MATH 203 or 233 - Calculus III (grade of C- or better) [see Q2S notes]
_____ MATH 230 or 330 - Linear Algebra [MATH 2610]
_____ MATH 340 - Probability Theory [MATH 3200]
_____ PHYS 221 - Classical Physics I - Mechanics (6) (grade of C- or better) [PHYS 2210]
_____ PHYS 222 - Classical Physics II - Thermo/EM (6) (grade of C- or better) [PHYS 2220]
_____ PHIL 316 - Professional Ethics [PHIL 3318]

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

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_____

General Education and University Requirements (45-52)

_____ 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 - 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)
_____ GWAR - Pass exam or get C- or better in course (COMM 304 - Tech. Writing recommended for course)

Advising Notes:

Q2S Transition Notes:

Programming sequence:
CMPS 2010 is CMPS 150+221+Half 222
CMPS 2020 is Half CMPS 222+All 223

Calculus sequence for CMPS:
Completion of MATH 2510 & 2520 or MATH 2310 & 2320 is sufficient for the Computer Science MATH 201-203 or MATH 231-233 requirement
(see advisor if you have partially completed calculus under quarters for a Q2S transition plan)

GE: Go to https://www.csub.edu/ge