Computer Science (Computer Information Systems) 2013-15 Catalog Advising Checklist
Quarter Units: 180  Core Units: 112

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.

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)

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)

Q2S Transition Notes:

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

Elementary Statistics cognate:
Either MATH 1209 or 2200 can be used for the MATH 140 requirement, but MATH 2200 is strongly recommended.

Pre-calculus II cognate:
Use either the combined pre-calculus course (MATH 1040) or stand-alone pre-calculus II course (MATH 1060)

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

Revision: April 7, 2017