# Computer Science (Information Security) 2013-15 Catalog Advising Checklist

**Quarter Units:** 180  
**Core Units:** 122

## Lower Division Core (21)
- 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 295 - Discrete Structures [CMPS 2120]

## Upper Division Core (31)
- CMPS 312 - Algorithm Analysis and Design [CMPS 3120]
- CMPS 335 - Software Engineering [CMPS 3350]
- CMPS 350 - Programming Languages [CMPS 3500]
- 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]

## Information Security Electives (15)
Choose from (CMPS 215 and 216), 340, 342, 445, 451, 476, CMPS/MATH 475, or approved substitute
- CMPS
- CMPS
- CMPS

## Cognate Requirements (30)
- 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]
- PHIL 316 - Professional Ethics [PHIL 3318]

## Global Intelligence and National Security (GINS) Cognate Courses (30)
- PLSI 304 - International Relations [PLSI 3040]
- CRJU 440 - Terrorism [CRJU 4340]
- GINS Intelligence Analytical Tools (GEOL 450, CRJU 494, or approved substitute)
- GINS Focus Area course (see catalog for list)
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## Additional Units (any university units) (0-3)

## 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 with grade of C- or better

## 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

Revision: April 7, 2017