

COMPUTER SCIENCE (CIS TRACK) 2011/13 DEGREE REQUIREMENT CHECKLIST

Lower Division (26-30)

- _____ CMPS 150 (1) (or CMPS 215, which can also be used as an elective below)
- _____ CMPS 211 Internet Programming and Web Design
- _____ CMPS 221 Programming Fundamentals
- _____ CMPS 222 Object-Oriented Programming
- _____ CMPS 223 Data Structures and Algorithms
- _____ CMPS 295 Discrete Structures

Upper Division required (50)

- _____ CMPS 312 Algorithm Analysis and Design
- _____ CMPS 335 Software Engineering
- _____ CMPS 342 Database Systems
- _____ CMPS 350 Programming Languages
- _____ CMPS 356 Artificial Intelligence
- _____ CMPS 360 Operating Systems
- _____ CMPS 371 Computer Graphics
- _____ CMPS 376 Computer Networks
- _____ CMPS 394 Java: Client, Server, and Internet Programming
- _____ CMPS 490 Senior Project in Computer Science

Advanced Elective (select 1 course from: CMPS 435, 442, or 456) (5)

Other Electives (select 20 units of approved courses) (20)

Cognate Requirements (10)

- _____ MATH 140 Elementary Statistics or MATH 192 or a higher-level (e.g. MATH 20x) math course (satisfies B4)
- _____ MATH 190/191 Pre-Calculus I

Lower Division General Education (60)

- _____ A1 - COMM 108
- _____ A2 - ENGL 110
- _____ A3
- _____ B1,B3
- _____ B2 - BIOL 100
- _____ C1, _____ C2, _____ C3
- _____ US History Requirement
- _____ D1
- _____ D2 ECON 202 (Macroeconomics)
- _____ D3 PLSI 101 (also satisfies State Government Requirement)

Upper Division General Education (15)

- (Theme I - waived for CMPS and CENG majors)
- _____ Theme II - PHIL 316 (Ethics)
- _____ Theme III
- _____ Gender, Race, or Ethnicity (GRE)