COMPUTER SCIENCE 2015-2016  B.S. Degree Requirements
CS undergraduate advising: ugrad-help@cs.utah.edu or 801-581-8224

PRE-MAJOR REQUIREMENTS:
C- or better in each course, and a minimum 3.0 average GPA (overall and within pre-major courses) required to apply for full major status.

1. CS 1030, Foundations of CS ______/______/______ (3)
2. CS 1410, Object-Orient. Prog., ______/______/______ (4)
3. CS 2420, Algorithms/Data Struct. ______/______/______ (4)
4. Math 1210, Calculus I (QR) ______/______/______ (4)
5. Math 1220, Calculus II (QR) ______/______/______ (4)

GENERAL EDU. REQUIREMENTS:
Honors options also accepted for WR2, CW, and AI requirements.

1. Wrtg 2010, Intermediate Writing (WR2) ______/______/______ (3)
2. Wrtg 3012 or 3014 or 3015 (CW) ______/______/______ (3)
3. American Institutions (AI) ______/______/______ (3)

SIX Intellectual Exploration (IE) courses required. TWO must be upper division (3000-level or above), ONE must satisfy the Diversity requirement and ONE must satisfy the International requirement.

4. Fine Arts (FF): ______/______/______ (3)
5. Fine Arts (FF): ______/______/______ (3)
6. Humanities (HF): ______/______/______ (3)
7. Humanities (HF): ______/______/______ (3)

8. Social/Behavioral Science (BF): ______/______/______ (3)
   • Upper Division (3000+ level IE) ______/______/______
   • Upper Division (3000+ level IE) ______/______/______
   • Diversity (DV) ______/______/______
   • International (IR) ______/______/______

MATH / SCIENCE ELECTIVES:
C- or better required in all math/ science courses. TWO additional electives must be 3+ credits each, and qualify as follows:

Accepted: Math, science or engineering courses with Math 1220 as a pre- or co-requisite (See DARS). Biol 1210, Chem 1210 also accepted.

NOT Accepted: CS courses (except CS 3130). Math 2200, Math 3010. Math 2250 not accepted if Math 2270 and/ or Math 2280 are taken. Math 5010 and/or 3070 not accepted if CS 3130/ ECE 3530 is taken.

1. Physics 2210, Physics I ______/______/______ (4)
2. Math 2210, Calculus III (QR) ______/______/______ (3)
3. Math 2270 Linear Algebra (QR) ______/______/______ (3)
   or CS 3130 Eng. Prob & Stats (QI) ______/______/______ ( )
4. ______/______/______ ( )
5. ______/______/______ ( )

The following requirements are restricted to FULL Majors:
C- or better required in all CS courses. CR/NC grading option not allowed for any major requirement. 2.5 GPA (overall & CS courses) required to graduate.

MAJOR REQUIREMENTS:

1. CS 2100, Discrete Structures ____/______/______ (3)
2. CS 3500, Software Practice I ______/______/______ (4)
3. CS 3505, Software Practice II ____/______/______ (3)
4. CS 3810, Computer Organization (QI) ______/______/______ (3)
5. CS 4150, Algorithms (QI) ______/______/______ (3)
6. CS 4400, Computer Systems (QI) ______/______/______ (4)

CS ELECTIVES:
Choose 7 total CS courses, 3000-level or above, 3-4 credits each. Seminars, CS 3992, CS 3130 not accepted. Only 1 Mobile Apps course will be accepted.

1. CS ______/______/______ ( )
2. CS ______/______/______ ( )
3. CS ______/______/______ ( )
4. CS ______/______/______ ( )
5. CS ______/______/______ ( )
6. CS ______/______/______ ( )
7. CS ______/______/______ ( )

No more than 3 of the following may be accepted above as CS electives:
• (1) CS 4010, Internship
• (1) CS 4940, Research (if not used for capstone)
• (1) CS 4950, Independent Study
• Up to (2) EAE courses: EAE 3600, 3605, 3640, 3660
• (1) Combination of 1-2 credit CS courses (3 credits total): CS 3011, 3020, 4190, 5040 and 1-2 credit special topics courses

THEORY RESTRICTED ELECTIVE
Choose ONE. (If both classes are taken, one will count as a CS elective above)

CS 3100, Models of Computation (QI) ______/______/______ (3)
or
CS 3200, Scientific Computing ______/______/______ (3)

CAPSTONE REQUIREMENT:
Choose ONE set. (Permission required from Undergraduate Director for thesis)

CS 4000, Senior Capstone Design ______/______/______ (3)
CS 4500, Senior Capstone Project ______/______/______ (3)
or
CS 4940, Undergraduate Research ______/______/______ (3)
CS 4970, Bachelor’s Thesis ______/______/______ (3)

See the CS Undergraduate Handbook online for complete details, restrictions & requirements
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