COMPUTER SCIENCE 2018-2019  B.S. Honors Degree Requirements
Advising: ugrad-help@cs.utah.edu, Schedule appointments online at cs.utah.edu
Honors Degree requirements: 4 Honors Core, 3 Electives, 1 Thesis

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 1250 (HON, QR) or 1311 (HON, QR), Calc I ________ (4)
5. Math 1260 (HON, QR) or 1321 (HON, QR), Calc II ________ (4)

GENERAL EDU. REQUIREMENTS:
Honors options also accepted for FF, HF, FF, IR and DV courses. See Honors advisor for requirements.

1. HONOR 2211, Writing in Honors (WR2, HON) ________ (3)
2. HONOR 3200, Research University (CW, HON) ________ (3)
3. HONOR 2212, American Institutions (AI, HON) ________ (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. Honors Intellectual Traditions (HF, HON): ________ (3)
7. Honors Intellectual Traditions (HF, HON): ________ (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. PHYS 2210 Required. FOUR additional electives must be 3+ credits each, 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 5070 not accepted if CS 3130/ECE 3530 is taken.

1. Physics 2210, Physics I ___________ (4)
2. Math 2270, Linear Algebra ___________ (4)
3. CS 3130, Eng Prob & Stats (QI) ________ (3)
4. ____________________________ ( )
5. ____________________________ ( )

*For exceptions see SoC guidelines, cs.utah.edu/socguidelines/

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) ________ (4)
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. 6000-level courses accepted toward Honors degree.

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
• (1) EAE course (3000+ level, 3+ credits)
• (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)
CS 4998, Honors Project Thesis (HON) ________ (1)

or

CS 4940, Undergraduate Research ________ (3)
CS 4999, CS Honors Thesis/Project (HON) ________ (3)

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