COMPUTER SCIENCE 2015-2016  B.S. Honors Degree Requirements
CS undergraduate advising: ugrad-help@cs.utah.edu or 801-581-8224
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 2222, 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:**

TWO 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.

N OT Accepted: CS courses (except CS 3130), Math 2200, Math 3010.
Math 2230 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. Choose 1: Math 2210 (QR), Math 2270 (QR) or CS 3130 ( )
3. Choose 1: Math 2210 (QR), Math 2270 (QR) or CS 3130 ( )
4. ____________________________________________________ ( )
5. ____________________________________________________ ( )

**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)

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 4930, 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

CS 3100, Models of Computation (QI) ________________________(3)
or
CS 3200, Scientific Computing _____________________________ (3)

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

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