Student Name: _____ uID: _____

COMPUTER SCIENCE 2018-2019 B.S. Honors Degree Requirements

Advising: [ugrad-help@cs.utah.edu.](mailto: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, Algrthms/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 FF, HF, FF, IR and DV courses. See Honors advisor for 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. Honors Intellectual Traditions (HF, HON):_____(3)
7. Honors Intellectual Traditions (HF, HON):_____(3)

8. Social/Behavioral Science (BF):* _____(3)
9. 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.

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 2270, Linear Algebra_____(4)
3. CS 3130, Eng Prob & Stats (QI)_____(3)
4. _____( )
5. _____( )

Honors options available. See Honors advisor for requirements.

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