

Student Name: \_\_\_\_\_ uID: \_\_\_\_\_

# COMPUTER SCIENCE 2015-2016 B.S. Honors Degree Requirements

CS undergraduate advising: [ugrad-help@cs.utah.edu](mailto: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, Algrthms/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)
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. PHYS 2210 Required. CHOOSE 2 of 3: Math 2210-Calc III, Math 2270-Linear Algebra, CS 3130-Eng. Prob. Stats.

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.

*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. 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. \_\_\_\_\_ ( )

## 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  
Updated 5/14/15