COMPUTER SCIENCE 2018-2019  B.S. Degree Requirements
Advising: ugrad-help@cs.utah.edu, Schedule appointments online at cs.utah.edu

**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. 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 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. Math 2270, Linear Algebra ____________________________________________ (4)
3. CS 3130, Eng Prob & Stats (QI) ________________________________ (3)
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 ____________________________________________ (3)
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.

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) Only by Petition 1 EAE course
- (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)

or

CS 4500, Senior Capstone Project ________________________________ (3)

or

CS 4940, Undergraduate Research __________________________________ (3)

CS 4970, Bachelor’s Thesis ________________________________________ (3)

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

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

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