Student Name: _____ uID: _____

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

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 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)
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. _____( )

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.

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)
or
CS 4940, Undergraduate Research _____(3)
CS 4970, Bachelor's Thesis _____(3)

See the CS Undergraduate Handbook online for complete details, restrictions & requirements
Updated 5/14/15