

Computer Science Major - School of Computing
2005-2006

Name: _____ ID#: _____ Graduation Date: _____

Course #	Title	Hrs	Prerequisites	Offered	Sem	Grade
38 hours of Core Courses Required						
CS 101	Beginning Programming	3	Math 97 or equivalent	F W Sp		
CS 201	Web Programming	3	CS 101, Math 106	F W Sp		
CS 202	Object-Oriented Programming	3	CS 101, Math 110	F W		
CS 210	Computer Organization	3	CS 101, Math 110	W		
CS 301	Algorithms & Complexity	3	CS 202, Math 202, Math 202L	F W		
CS 320	Computational Theory	3	CS 201, Math 201, Math 201L	W		
CS 333	Software Engineering I	3	CS 202	F		
CS 410	Computer Architecture	3	CS 210, CS 301	W		
CS 415	Operating Systems Design	3	CS 210, CS 301	W		
CS 420	Programming Languages	3	CS 202, CS 320	F		
CS 433	Software Engineering II	3	CS 333	W		
CS 440	Intelligent Systems	3	CS 301	F		
CS 471	Ethics in Computer Science	2	CS 301	F		
8 Hours of Supporting Courses Required						
IS 280	Data Communications	3	CS 101	F W		
IS 350	Data File & Database	3	CS 201	F W Sp		
MATH 201L	Discrete Mathematics I Lab	1	Math 110 or equivalent, CS 101	F Sp		
MATH 202L	Discrete Mathematics II Lab	1	Math 201L	W Sp		
4 Hours of Electives Required						
Elective CS 4				Various		
Elective CS 4				Various		
Elective CS 4				Various		
Elective CS 4				Various		
Elective IS 431		3		F W		

MATH MINOR See Item 4 below						
A TWO SEMESTER, LAB-BASED Science Sequence	PHYS 121: General Physics I	3	Math 112	F		
	PHYS 121L: Gen Phys I Lab	1	Math 112	F		
	PHYS 122: General Physics II	3	Phys 121	W		
	PHYS 122L: Gen Phys II Lab	1	Phys 121	W		
	OR					
	CHEM 105: Gen. Chem I	3	Chem 101	F W		
	CHEM 105L: Gen. Chem I Lab	1	Chem 101	F W		
	CHEM 106: Gen. Chem II	3	Chem 105	W Sp		
CHEM 106L: Gen. Chem II Lab	1	Chem 105	W Sp			

- 1) One D+, D, D- is allowed above. All other credits must be C- or better.
- 2) **Total CS Credit:** Complete 50 or more hours of CS coursework. IS 280, IS 350, IS 431, Math 201L, and Math 202L may be applied toward this total.
- 3) **Advanced CS Credit:** Complete 21 or more hours of CS coursework at the 400-499 level. IS 431 may be applied toward this total.
- 4) **Mathematics:** Complete a minor in mathematics, by completing the following courses:
Math 112, Math 113, Math 201, Math 202, Math 221 or 321, Math 343.
- 5) **Breadth:** Complete 30 or more hours in Art, Humanities, Religion, English, IDS and History (courses other than CS, IS, MATH, SCIENCE and EXS).
Note: normally students will naturally earn these hours by completing BYUH General Education and Religion requirements.
- 6) Complete the GRE Computer Science Subject Test.