



B.S. in Computer Science
COMPSCBS.2010
71-77 credits, incl. 6-8 GE credits

Effective Date: 10/2010

Name of Student:		
Student ID #:		Graduation Date
Home Country:	<input type="checkbox"/> IWORK	
Advisor:	Name	Date

Required courses for admission to the major

12 Credits

Student must pass the following courses with a grade of C or better.

Course #	Title	Hr.	Prerequisites	Offered	Sem.	Grade
CIS 101	Beginning Programming	3		F,W,S		
CIS 202	Object-Oriented Programming I	3	CIS 101	F,W,S		
CIS 205	Discrete Mathematics I (GenEd)	3	CIS 101	W,S		
IT 280/L	Data Communications/Lab	3		F,W,S		

To be accepted into this major, you must pass all courses listed above with a C or better. You must also have a cumulative GPA of 2.0 or higher. I understand that **One retake is allowed per class, for up to three classes. Additional retakes require special permission.** I understand that if I exhaust my repeats, I risk the chance of not being able to continue in the major or any other major in the CIS department. Please acknowledge that you understand this policy by signing below.

Academic Advisor _____ Date _____ Student _____ Date _____ Accepted into the major: CS Program Chair _____ Date _____

Core Requirements

41 Credits

Classes marked "MO" are for admitted majors only.

CIS 206	Discrete Mathematics II	3	CIS 202, CIS 205		F,S	
CIS 305	Systems Engineering I	3	CIS 205; Co/Prereq: IS 350	MO	F,W	
CIS 401	Web Application Programming	3	CIS 101, IT 240, IS 350 or instructor's permission		F,W,S	
CIS 405	Systems Engineering II	3	CIS 305	MO	F,W	
CIS 470	Ethics in Computer & Info Sciences	2	CIS 405	MO	F,W,S	
CS 203	Object- Oriented Programming II	3	CIS 202		F,S	
CS 210	Computer Organization	3	CIS 101		W	
CS 301	Algorithms & Complexity	3	CS 203, CIS 206	MO	W	
CS 320	Computational Theory	3	CS 203, CIS 206	MO	W	
CS 415	Operating Systems Design	3	CS 210, CS 301	MO	W	
CS 420	Programming Languages	3	CS 301, CS 320	MO	F	
CS 490R	Advanced Topics in Computer Science	3	CS 301	MO	F,W	
CS 490R	Advanced Topics in Computer Science	3	CS 301	MO	F,W	
IS 350	Database Management Systems	3	CIS 101	MO	F,W	

CALCULUS

4-10 Credits

Choose either Math 119 (4 credits) or Math 112/113 (10 Credits).

MATH 119	Applied Calculus (GenEd)	4	MATH 110 experience		W	
MATH 112	Calculus I (GenEd)	5	MATH 111 or equivalent		F,W	
MATH 113	Calculus II (GenEd)	5	MATH 112		W	

Additional Math Requirements

6 Credits

MATH 221	Principles of Statistics I (GenEd)	3	MATH 106 or 110 or equivalent		F,W,S	
MATH 343	Elementary Linear Algebra	3	MATH 112 or MATH 119		F	

SCIENCE

8 Credits

Choose any two classes from the list below. Fulfills part of GE requirements.

PHYS 121/L	General Physics I/ Lab (GenEd- 3)	4	MATH 112 or MATH 119		W,S	
PHYS 122/L	General Physics II/ Lab	4	PHYS 121		W,S	
CHEM 105/L	General Chemistry I/ Lab (GenEd - 3)	4	MATH 110 or equivalent		F,W	
CHEM 106/L	General Chemistry II/ Lab	4	CHEM 105/L		W,S	

Total Credits Mapped for Graduation:

- One D+, D, D- is allowed above. All other credits must be C- or better.
- One retake is allowed per class, for up to three classes. Additional retakes require special permission.
- A department-approved assessment test must be taken during your last full semester at BYUH.