B.S. in Computer Science

COMPSCBS.2017 (mrs 1407)
60 credits

Effective Date: 09/2017

Name of Student:		
Student ID #:		Graduation Date
Home Country:		☐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		A
CIS 202	Object-Oriented Programming I	3	CIS 101	F,W,S		A
CIS 205	Discrete Mathematics I	3	CIS 101	F,W,S		A
IT 280	Computer Networking	3		F,W,S		A

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, 205		F		A
CIS 305	Systems Engineering I	3	CIS 202	MO	F,W		A-
CIS 405	Systems Engineering II	3	CIS 305, IS 350	MO	W,S		A
CIS 470	Ethics in Computer and Information Sciences	2	ENGL 315 or ENGL 316 or equivalent	MO	F,S		
CS 203	Object-Oriented Programming II	3	CIS 202		F		A
CS 210	Computer Organization	3	CIS 101		W		
CS 301	Algorithms and Complexity	3	CS 203, CIS 206	MO	W		A
CS 320	Introduction to Computational Theory	3	CS 203, CIS 206	MO	W		
CS 400	Computer Science Proficiency	0	Last semester in residence	MO	F,W,S		
CS 401	Web Applications Development	3	CS 203 and IS 350		F		
CS 415	Operating Systems Design	3	CS 210, 301	MO	F		
CS 420	Programming Languages	3	CS 301, CS 320	MO	S		
CS 490R	Advanced Topics in Computer Science	3	CS 301	MO	F,W,S		A
CS 490R	Advanced Topics in Computer Science	3	CS 301	MO	F,W,S		
IS 350	Database Management Systems	3	CIS 101	MO	F,W		A

Math and Science Requirements — 7 Credits

Students majoring in CS are expected to take Calculus (Math 119 or Math 112/113) in fulfillment of their "Quantitative Reasoning" Math General Education requirement

MATH 121	Principles of Statistics	3	MATH 107 or 110	F,W,S		A
PHYS 121/L	General Physics I/ Lab	4	MATH 112 and either High School Trigonometry or MATH 111	F,W		

Supplemental Courses — 0 Credits

For students considering graduate school, we recommend taking MATH 343 and one additional lab-based course from the list below

MATH 343	Elementary Linear Algebra	3	MATH 112	F-odd, W-odd, S-even		
PHYS 220/L	General Physics II/ Lab	4	PHYS 121/L. Completion of MATH 213 recommended.	F,W		
PHYS 221/L	General Physics III/Lab	4	PHYS 121. Completion of MATH 213 recommended.	S		
CHEM 105/L	General Chemistry I/ Lab	4	MATH 110 with a C- or better, or ACT Math score higher than 22 or SAT Math score higher than 520. *(High School Chemistry or CHEM 101 highly recommended)*	F,W		
BIOL 212/L	Marine Biology/Lab	4	BIOL 113	S		

Total Credits Mapped for Graduation:

1. One D+, D, D- is allowed above. All other credits must be C- or better.
2. One retake is allowed per class, for up to three classes. Additional retakes require special permission.
3. A program-approved assessment test must be taken during your last full semester at BYU-H.
4. Students may seek one and only one major in either BCIS, CS, IS, or IT.
5. Minors in CIS require at least 9 CIS credits not applied to other majors or minors.

The terms of this MRS will be honored by the Faculty and University within the next 8 years. If courses cease to be offered, options for substitution will be provided.

Last Revision 12/7/18