

COMPUTER SCIENCE - COMPUTERS & BUSINESS CONC

Academic Year 2019 - 2020

FALL

SPRING

Course number	Course Title	USP / CMTS	Credits	Min Grade	Grade Earned	Course Number	Course Title	USP / CMTS	Credits	Min Grade	Grade Earned
FRESHMAN YEAR											
COSC 1010	Intro to Computer Science		4	C		COSC 1030	Computer Science I		4	C	
							C in COSC 1010				
MATH 2200	Calculus I	Q	4	C		ENGL 1010	College Composition	C1	3	C	
	C or better in Math 1405 or 1450 or Level 5 on MPE or Math ACT 27 or Math SAT 640						None				
USP-H	USP-Human Culture	H	3			MATH 2205	Calculus II	Q	4	C	
							C or better in Math 2200				
1101	First Year Seminar	FYS	3	C		USP-V	US & Wyoming Constitution	V	3		
							Business Minor		3		
Total						Total					
14						17					

SOPHOMORE YEAR											
COSC 2030	Computer Science II		4	C		COSC 3011	Intro to Software Design		3	C	
	C in COSC 1030						Spring only	C in COSC 2030			
COSC 2150	Computer Organization		3	C		COSC 3020	Alg & Data Structures		4	C	
	Fall only	C in COSC 1030					C in COSC 2030 and COSC 2300				
MATH 2300	Discrete Structures		3	C		MATH 2250	Elementary Linear Algebra		3	C	
	C in COSC 1030 and MATH 2200 or 2350						C in Math 2200 or Math 2350				
	Science Elective	PN	4				Science Elective	PN	4	C	
	Business Minor		3								
Total						Total					
17						14					

JUNIOR YEAR											
COSC 3015	Functional Programming		3	C		COSC 3750	Linux Programming		3	C	
	Fall only	C in COSC 2030 and COSC 2300					Spring only	C in COSC 2030			
COSC	COSC elective		3	C		Prog Lang ⁵	Choose one: COSC 4780 or 4785		3	C	
							Spring only				
STAT	STAT 2010 or 2050 or 2070		4			COSC 4820	Database Systems		3	C	
							Spring only	C in COSC 2030			
MATH/SCI	Math/Science Elective		4			COM2	USP-Communication 2	C2	3	C	
							Business Minor		3		
Total						Total					
14						15					

SENIOR YEAR											
COSC 4950	Senior Design I		1	C		COSC 4955	Senior Design II		2	C	
	Fall only	C in COSC 3020					Spring only	C in COSC 4950			
COSC 4210	Web Application Development		3	C		COSC 3050	Ethics for Computer Prof		1	C	
		C in COSC 3011					Spring only	C in COSC 2030			
COSC	COSC elective		3	C		Theory ⁷	Choose one: COSC 4100 or 4200		3	C	
							Spring only	C in COSC 3020			
ENGL 4010	Technical Writing	C3	3	C		COSC 4220	Agile Web Development		3	C	
							Spring only	C in COSC 4210			
USP-H	USP-Human Culture	H	3				Business Minor		3		
	Business Minor		3				Business Minor		3		
Total						Total					
16						15					

KEY

Fall only
Spring only
Prerequisite(s)

Note 1: Students must minor in Business if choosing the Computers & Business concentration.

Note 2: A minimum of 42 credit hours must be upper division.

Note 3: Must take a minimum of 30 credit hours of Math/Stats/Science

Note 4: All COSC and MATH courses require a minimum of C.

Note 5: Math/Science Electives must be courses at or above MATH 2205 or STAT 3000. Cannot count MATH 2205, 2350, 2355, 4000 or any variable credit course.

Note 6: **Programming Language Course:** Choose either COSC 4780, Principles of Programming Languages (pre-req: COSC 3015), or COSC 4785, Compiler Construction (pre-req: COSC 3020).

Note 7: **Theory Course:** Choose either COSC 4100, Foundations (pre-req: COSC 3020), or COSC 4200, Computability & Complexity (pre-req: COSC 3020).

Total Program Credits: 122