



# COMPUTER SCIENCE, BSCS

## Computers and Business Concentration

### FALL

### SPRING

Course Number	Course Title	USP	CR	Min Grade	Grade	Course Number	Course Title	USP	CR	Min Grade	Grade
<b>FRESHMAN YEAR</b>											
COSC 1010	Intro to Comp Science		4	C		COSC 1030	Computer Science I		4	C	
						<i>Prerequisite: C in COSC 1010</i>					
MATH 2200	Calculus I	Q	4	C		MATH 2205	Calculus II	Q	4	C	
<i>Prerequisite: C in Math 1405 or 1450, MPE 5, Math ACT 27, Math SAT 640</i>											
	Science Elective- see list	PN	4	D			Science Elective- see list	PN	4	D	
	USP: First Year Seminar	FYS	3	C			USP: Communications I	C1	3	C	
<b>Total</b>						<b>Total</b>					
15						15					

### SOPHOMORE YEAR

COSC 2150	Computer Organization		3	C		COSC 3011	Intro to Software Design		3	C	
<i>Prerequisite: C in COSC 1030</i>											
COSC 2030	Computer Science II		4	C		COSC 3020	Alg & Data Structures		4	C	
<i>Prerequisite: C in COSC 1030</i>											
COSC 2300	Discrete Structures		3	C		MATH 2250	Elementary Linear Algebra		3	C	
<i>Prerequisite: C in COSC 1030 and MATH 2200</i>											
	USP: Human Culture	H	3	D			USP: Human Culture	H	3	D	
	USP: Communications II	C2	3	C			Business Minor Course		3		
<i>Prerequisite: C in C1</i>											
<b>Total</b>						<b>Total</b>					
16						16					

### JUNIOR YEAR

COSC 3015	Functional Programming		3	C		COSC 3050	Ethics for Computer Prof		1	C	
<i>Prerequisite: C in COSC 2030 and COSC 2300</i>											
COSC	O/S Course (3750 or 4740)		3	C		COSC	Theory Course (4100 or 4200)		3	C	
<i>Prerequisite: C in COSC 3020</i>											
COSC 3765	Computer Security		3	C		COSC	Systems Course (4760 or 4820)		3	C	
<i>Prerequisite: C in COSC 2030</i>											
	Math/Science Elective - see list		4	C			COSC Elective		3	C	
	USP: US & Wyo Const.	V	3	D		<i>Prerequisite: Varies</i>					
							Business Minor Course		3		
<b>Total</b>						<b>Total</b>					
16						13					

### SENIOR YEAR

COSC 4950	Senior Design I		1	C		COSC 4955	Senior Design II		2	C	
<i>Prerequisite: C in COSC 3011 and COSC 3020</i>											
COSC 4210	Web Application Development		3	C		COSC 4220	Design and Implementation		3	C	
<i>Prerequisite: C in COSC 3011</i>											
COSC	Prog. Lang Course (4785 or 4780)		3	C		<i>Prerequisite: C in COSC 4210</i>					
<i>Prerequisite: Varies</i>											
One of:	STAT 2050 or STAT 2070		4	C			Business Minor Course		3		
<i>Prerequisite: C in MATH 1400</i>											
	USP: Communications III	C3	3	C			Business Minor Course		3		
<i>Prerequisite: C in C2</i>											
	General Elective (if needed)		3				Business Minor Course		3		
<b>Total</b>						<b>Total</b>					
17						14					

**Total Program Credits: 122**

#### Fall only or spring only course

- A minimum of 120 hours is required. A minimum of 42 hours must be upper division. A minimum of 30 hours must be math/science.
- All COSC, MATH and STAT courses require a minimum grade of C.
- Students must simultaneously complete a Minor in the College of Business.
- COSC electives must be at or above the 3000 level. A maximum of 3 credit hours of COSC 3970 (internship) can be used.
- Math/Science Electives must be selected with advisor's approval from Department list. Science courses must have a lab. Math courses must be at or above MATH 2205 or STAT 3000. Cannot count MATH 2350, MATH 2355, MTH 4000, STAT 4220 or any variable credit course. Four hours of Math/Science Electives are required. Two 3-credit courses can also be used.
- Courses for requirements with options (Programming Language, Theory, O/S) are offered in alternating semesters. See your advisor for clarification.
- Degree candidates must meet the academic requirements of the university.
- Students may not take a course for S/U credit to satisfy any requirement for a degree from the College of Engineering and Applied Science, unless the course is offered for S/U credit only.
- Systems, O/S, Theory, and Prog. Lang Course options are offered in alternating semesters. See advisor for information.