



College of Engineering
and Physical Sciences

COMPUTER SCIENCE, BSCS

FALL

SPRING

Course Number	Course Title	USP	CR	Min Grade	Grade	Course Number	Course Title	USP	CR	Min Grade	Grade
FRESHMAN YEAR											
COSC 1010	Comp Thinking/Programming		3	C		COSC 1030	Computer Programming		4	C	
						Prerequisite:	C in COSC 1010				
MATH 2200	Calculus I	Q	4	C		MATH 2205	Calculus II	Q	4	C	
Prerequisite:	C in Math 1405 or 1450, MPE 5, Math ACT 27, Math SAT 640					Prerequisite:	C in Math 2200				
	Science Elective	PN	4	D			Science Elective	PN	4	D	
	See list of approved courses						See list of approved courses				
	USP: Communications I	C1	3	C			General Elective		3	D	
Total			14			Total			15		

SOPHOMORE YEAR

EE 2150	Computer Organization		3	C		COSC 3011	Intro to Software Design		3	C	
Prerequisite:	C in COSC 1030					Prerequisite:	C in COSC 2030				
COSC 2030	Data Structures		4	C		COSC 3020	Algorithm Design/Analysis		4	C	
Prerequisite:	C in COSC 1030					Prerequisite:	C in COSC 2030 and COSC 2300				
COSC 2300	Discrete Structures		3	C		MATH 2250	Elementary Linear Algebra		3	C	
Prerequisite:	C in COSC 1030 and MATH 2200					Prerequisite:	C in Math 2200 or Math 2350				
	USP: Human Culture	H	3	D			USP: Human Culture	H	3	D	
	USP: Communications II	C2	3	C			General Elective		3	D	
Prerequisite:	C in C1										
Total			16			Total			16		

JUNIOR YEAR

COSC 3015	Functional Programming		3	C		COSC 3050	Ethics for Computer Prof		1	C	
Prerequisite:	C in COSC 2030 and COSC 2300					Prerequisite:	Junior Standing, COSC Major				
COSC	Systems Course (4760 or 4820)		3	C		COSC	Theory Course (4100 or 4200)		3	C	
Prerequisite:	Varies					Prerequisite:	Varies				
COSC	COSC Elective I		3	C		COSC 3765	Computer Security		3	C	
Prerequisite:	Varies					Prerequisite:	C in COSC 2030				
	Math/Science Elective		4	C			General Elective		3	D	
	See list of approved courses										
	USP: US & Wyo Const.	V	3	D			General Elective		3	D	
Total			16			Total			13		

SENIOR YEAR

COSC 4950	Senior Design I		1	C		COSC 4955	Senior Design II		2	C	
Prerequisite:	C in COSC 3011 and COSC 3020					Prerequisite:	C in COSC 4950				
COSC	O/S Course (3750 or 4740)		3	C		COSC	Prog. Lang Course (4785 or 4780)		3	C	
Prerequisite:	Varies					Prerequisite:	Varies				
STAT 2050	Fundamentals of Stat		4	C		COSC	COSC Elective II		3	C	
	USP: Communications III	C3	3	C		Prerequisite:	Varies				
Prerequisite:	C in C2					COSC	COSC Elective III		3	C	
	General Elective		4	D		Prerequisite:	Varies				
Total			15				General Elective-Upper Division		4	D	
Total			15			Total			15		

Fall only or spring only course

Total Program Credits: 120

- 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.
- 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.
- General Electives cannot meet any other requirement for the major, and should be selected to satisfy the 42-credit upper division requirement.
- Courses for requirements with options (Systems, 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.