COMPUTER SCIENCE

College of Engineering and Physical Sciences

FALL / SPRING

FRESHMAN YEAR

Course Number	Course Title	USP	CR	Min Grade	Grade	Course Number	Course Title	USP	CR	Min Grade	Grade
COSC 1010	Intro to Comp Science		3	C		COSC 1030	Computer Science I		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- *see list*	PN	4	D			Science Elective- *see list*	PN	4	D	
	USP: Communications I	C1	3	C			General Elective		3	D	
	Total		**14**				**Total**		**15**		

SOPHOMORE YEAR

Course Number	Course Title	USP	CR	Min Grade	Grade	Course Number	Course Title	USP	CR	Min Grade	Grade
COSC 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	Computer Science II		4	C		COSC 3020	Alg & Data Structures		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

Course Number	Course Title	USP	CR	Min Grade	Grade	Course Number	Course Title	USP	CR	Min Grade	Grade
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 3765	Computer Security		3	C		COSC	COSC Elective I		3	C	
Prerequisite:	COSC 2030					Prerequisite:	Varies				
	Math/Science Elective - *see list*		4	C			General Elective		3	D	
	USP: US & Wyo Const.	V	3	D			General Elective		3	D	
	Total		**16**				**Total**		**13**		

SENIOR YEAR

Course Number	Course Title	USP	CR	Min Grade	Grade	Course Number	Course Title	USP	CR	Min Grade	Grade
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:	Vaires					Prerequisite:	Varies				
STAT 2050	Fundamentals of Stat		4	C		COSC	COSC Elective II		3	C	
						Prerequisite:	Varies				
	USP: Communications III	C3	3	C		COSC	COSC Elective III		3	C	
Prerequisite:	C in C2					Prerequisite:	Varies				
	General Elective		4	D			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.

2024-2025 Catalog Year