



# COMPUTER ENGINEERING, BSCP

## FALL

## SPRING

Course Number	Course Title	USP	CR	Min Grade	Grade	Course Number	Course Title	USP	CR	Min Grade	Grade
<b>FRESHMAN YEAR</b>											
CHEM 1020	General Chemistry I	PN	4	D		COSC 1030	Computer Science I		4	C	
Prerequisite: ACT Math 23 or concurrent MATH 1400, 1405 or 1450						Prerequisite: C in COSC 1010					
COSC 1010	Intro to Computer Science		4	C		MATH 2205	Calculus II		4	C	
Prerequisite: USP: First Year Seminar FYS 3 C						Prerequisite: C in Math 2200					
Prerequisite: USP: Communications I C1 3 C						EE/ES > 2000 Any ES, EE, BE course (2000 or higher) or COSC 3011 or COSC 3750					
MATH 2200	Calculus I	Q	4	C		PHYS 1210	Engr Physics I		4	C	
Prerequisite: C in Math 1405 or 1450, MPE 5, Math ACT 27, Math SAT 640						Prerequisite: Concurrent in Math 2205					
Total 18						Total 15					

## SOPHOMORE YEAR

COSC 2030	Computer Science II		4	C		COSC 2150	Computer Organization		3	D	
Prerequisite: C in COSC 1030						Prerequisite: C in COSC 1030					
EE/ES > 2000	Any ES, EE, BE course (2000 or higher) or COSC 3011 or COSC 3750		3	D		EE 2220	Circuits and Signals		4	C	
Prerequisite: Concurrent in MATH 2205						Prerequisite: C in ES 2210					
ES 2210	Electric Circuit Analysis		3	C		EE 2390	Digital Systems Design		4	C	
Prerequisite: Concurrent in MATH 2205						Prerequisite: C in MATH 2205 and ES 1060 (or COSC 1010 or COSC 1030)					
MATH 2210	Calculus III		4	C		MATH 2310	Applied Differential Eqns I		3	C	
Prerequisite: C in Math 2205						Prerequisite: C in MATH 2205					
PHYS 1220	Engr Physics II		4	C		MATH 2300	Discrete Structures		3	C	
Prerequisite: Concurrent in MATH 2210						Prerequisite: C in MATH 2200 and COSC 1030					
Total 18						Total 17					

## JUNIOR YEAR

EE 3220	Signals and Systems		3	C		EE 3330	Electronics II		4	D	
Prerequisite: C in EE 2220						Prerequisite: C in EE 2220 and EE 3310					
EE 3310	Electronics I		4	C		EE 4220	Probabilistic Signals and		3	D	
Prerequisite: Concurrent in EE 2220 and C in PHYS 1220 or C in EE 3150						Prerequisite: C in MATH 2210 and concurrent in EE 3220					
EE 4490	HDL Digital Design		3	D		EE 4390	Microprocessors		3	D	
Prerequisite: C in EE 2390						Prerequisite: C in EE 2390					
	USP: Communications II	C2	3	C			Math/ Science Elective		3	D	
Prerequisite: C in C1						USP: Human Culture H 3 D					
Total 16						Total 16					

## SENIOR YEAR

One of	COSC 4760 (3) OR EE 4870 (4)		3	D		EE 4830	Senior Design II	C3	2	C	
Prerequisite: Varies						Prerequisite: C in EE 4820, concurrent in design courses					
EE 3150	Electromagnetics		3	C			CPEN Elective		3	D	
Prerequisite: C in ES 2210, MATH 2210, and concurrent in PHYS 1220						CPEN Elective					
EE 4820	Senior Design I		2	C			CPEN Elective		3	D	
Prerequisite: C in EE 2220, EE 2390, and C2; Concurrent in EE 3310 and 6 credits of 4000-level EE/BE courses						CPEN Elective					
	EE or BE Elective (>4000)		3	D			CPEN Elective		3	D	
Prerequisite: USP: US & Wyo Const. V 3 D						CPEN Elective					
Total 14						Total 14					

Fall only or spring only course

Total Program Credits: 128

- A minimum of 128 hours is required. • A minimum of 42 hours must be upper division.
- Math/Science, CPEN and BE/EE Electives must be selected with advisor's approval from Department list. • A maximum of 2 CPEN electives can be from the computer science department. •EE 4075 is not allowed as a CPEN Elective.
- Degree candidates must meet the academic requirements of the university, and must have a minimum GPA of 2.0 in all engineering courses.
- Students may not take a course for S/U credit to satisfy any requirement, unless the course is offered for S/U credit only.
- PHYS 1210 must be taken prior to or concurrently with ES 2120. PHYS 1220 should be taken prior to or concurrently with ES 2210.
- Grades of C or better are required for all courses that are prerequisites for courses within the students course of study and all required MATH courses.
- EE 1101 is recommended for EE and CPEN majors for their FYS requirement.