



COMPUTER ENGINEERING, BSCP

FALL

SPRING

Course Number	Course Title	USP	CR	Min Grade	Grade	Course Number	Course Title	USP	CR	Min Grade	Grade
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FRESHMAN YEAR

CHEM 1020	General Chemistry I	PN	4	D		COSC 1030	Computer Science I		4	C	
<i>Prerequisite: ACT Math 23 or concurrent MATH 1400, 1405 or 1450</i>						<i>Prerequisite: C in COSC 1010</i>					
COSC 1010	Intro to Computer Science		3	C		MATH 2205	Calculus II	Q	4	C	
<i>Prerequisite: C in Math 1405 or 1450, MPE 5, Math ACT 27, Math SAT</i>						<i>Prerequisite: C in Math 2200</i>					
MATH 2200	Calculus I	Q	4	C		EE/ES >2000	Any ES, EE, BE course (2000 or higher) or COSC 3011 or COSC 3750		3	D	
<i>Prerequisite: C in Math 1405 or 1450, MPE 5, Math ACT 27, Math SAT</i>						<i>Prerequisite: C in MATH 2205 and COSC 1010</i>					
	USP: Communications I	C1	3	C		PHYS 1210	Engr Physics I	PN	4	C	
<i>Prerequisite: C in C1</i>						<i>Prerequisite: C in C1</i>					
Total						Total					
14						18					

SOPHOMORE YEAR

COSC 2030	Computer Science II		4	C		COSC 2150	Computer Organization		3	D	
<i>Prerequisite: C in COSC 1030</i>						<i>Prerequisite: C in COSC 1030</i>					
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	
<i>Prerequisite: Concurrent in MATH 2205</i>						<i>Prerequisite: C in ES 2210</i>					
ES 2210	Electric Circuit Analysis		3	C		EE 2390	Digital Systems Design		4	C	
<i>Prerequisite: Concurrent in MATH 2205</i>						<i>Prerequisite: C in MATH 2205 and COSC 1010</i>					
MATH 2210	Calculus III		4	C		MATH 2310	Applied Differential Eqns I		3	C	
<i>Prerequisite: C in Math 2205</i>						<i>Prerequisite: C in MATH 2205</i>					
PHYS 1220	Engr Physics II	PN	4	C		MATH 2300	Discrete Structures		3	C	
<i>Prerequisite: Concurrent in MATH 2210</i>						<i>Prerequisite: C in MATH 2200 and COSC 1030</i>					
Total						Total					
18						17					

JUNIOR YEAR

EE 3220	Signals and Systems		3	C		EE 3331	Electronics II		3	D	
<i>Prerequisite: C in EE 2220</i>						<i>Prerequisite: C in EE 2220 and either EE 3310 or EE 3311</i>					
EE 3311	Electronics I		3	C		EE 3332	Electronics II Laboratory		1	D	
<i>Prerequisite: Concurrent in EE 2220 and C in PHYS 1220 or C in EE 3150</i>						<i>Prerequisite: Concurrent in EE 3331 (or completed) and C in EE 3312</i>					
EE 3312	Electronics I Laboratory		1	C		EE 4220	Probabilistic Signals and		3	D	
<i>Prerequisite: Concurrent in EE 3311 (or completed)</i>						<i>Prerequisite: C in MATH 2210 and concurrent in EE 3220</i>					
EE 4490	HDL Digital Design		3	D		EE 4390	Microprocessors		3	D	
<i>Prerequisite: C in EE 2390</i>						<i>Prerequisite: C in EE 2390</i>					
	USP: Human Culture	H	3	D			Math/ Science Elective		3	D	
	USP: US & Wyo Const.	V	3	D			USP: Human Culture	H	3	D	
Total						Total					
16						16					

SENIOR YEAR

One of	COSC 4760 (3) OR EE 4870 (4)		3	D		EE 4830	Senior Design II	C3	2	C	
<i>Prerequisite: Varies</i>						<i>Prerequisite: C in EE 4820, concurrent in design courses</i>					
EE 3150	Electromagnetics		3	C			CPEN Elective		3	D	
<i>Prerequisite: C in ES 2210, MATH 2210, and concurrent in PHYS 1220</i>											
EE 4820	Senior Design I		2	C			CPEN Elective		3	D	
<i>Prerequisite: C in EE 2220, EE 2390, and C2; Concurrent in EE 3311/3312 and 6 credits of 4000-level EE/BE courses</i>											
	EE or BE Elective (>4000)		3	D			CPEN Elective		3	D	
	General Elective		4				CPEN Elective		3	D	
Total						Total					
15						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/EE 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. While PHYS 1220 is not a prerequisite for ES 2210, it is recommended that PHYS 1220 is taken before or concurrently with ES 2210.
- Grades of C or better are required for all prerequisites courses and all required MATH courses.