COMPUTER ENGINEERING, BSCP

UW | College of Engineering and Physical Sciences

FALL / SPRING

Course Number	Course Title	USP	CR	Min Grade	Grade	Course Number	Course Title	USP	CR	Min Grade	Grade
FRESHMAN YEAR											
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*				
EE 1010	Intro/Electrical & Computer Eng		1	D		**MATH 2205**	Calculus II	Q	4	C	
						Prerequisite:	*C in Math 2200*				
	USP: Communications I	C1	3	C		**EE/ES >2000**	Any ES, EE, BE course (2000 or higher) or COSC 3011 or COSC 3750		3	D	
MATH 2200	Calculus I	Q	4	C		**PHYS 1210**	Engr Physics I	PN	4	D	
Prerequisite:	*C in Math 1405 or 1450, MPE 5, Math ACT 27, Math SAT 640*					*Prerequisite:*	*Concurrent in Math 2205*				
COSC 1010	Intro to Computer Science		3	C			USP: Communications II	C2	3	C	
						Prerequisite:	*C in C1*				
	Total		15				**Total**		18		
SOPHOMORE YEAR											
COSC 2030	Computer Science II		4	C		**EE 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:	*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 COSC 1010*				
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	PN	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	D		**EE 3331**	Electronics II		3	D	
Prerequisite:	*C in EE 2220*					*Prerequisite:*	*C in EE 2220 and either EE 3310 or EE 3311*				
EE 3311	Electronics I		3	C		**EE 3332**	Electronics II Laboratory		1	D	
Prerequisite:	*Concurrent in EE 2220 and C in PHYS 1220 or C in EE 3150*					*Prerequisite:*	*Concurrent in EE 3331 (or completed) and C in EE 3312*				
EE 3312	Electronics I Laboratory		1	C		**EE 4220**	Probabilistic Signals and		3	D	
Prerequisite:	*Concurrent in EE 3311 (or completed)*					*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: Human Culture	H	3	D			Math/ Science Elective		3	D	
	USP: US & Wyo Const.	V	3	D			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*										
EE 4820	Senior Design I		2	C			CPEN Elective		3	D	
Prerequisite:	*C in EE 2220, EE 2390, and C2; Concurrent in EE 3311/3312 and 6 credits of 4000-level EE/BE courses*										
	EE or BE Elective (>4000)		3	D			CPEN Elective		3	D	
	General Elective		3				CPEN Elective		3	D	
	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 comupter science department. •EE 4075 is not allowed as a CPEN/EE Elective. •Math courses used as a General Elective must be 2000 level or higher.
- 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.

2024-2025 Catalog Year