COLLEGE OF ENGINEERING & APPLIED SCIENCE

COMPUTER ENGINEERING, BSCP

UW

FALL

Course Number	Course Title	USP	CR	Min Grade	Grade
FRESHMAN YEAR					
CHEM 1020	General Chemistry I	PN	4	D	
Prerequisite:	*ACT Math 23 or concurrent MATH 1400, 1405 or 1450*				
COSC 1010	Intro to Computer Science		4	C	
	USP: First Year Seminar	FYS	3	C	
	USP: Communications I	C1	3	C	
MATH 2200	Calculus I	Q	4	C	
Prerequisite:	*C in Math 1405 or 1450, MPE 5, Math ACT 27, Math SAT 640*				
	Total		18		
SOPHOMORE YEAR					
COSC 2030	Computer Science II		4	C	
Prerequisite:	*C in COSC 1030*				
EE/ES > 2000	Any ES, EE, BE course (2000 or higher) or COSC 3011 or COSC 3750		3	D	
ES 2210	Electric Circuit Analysis		3	C	
Prerequisite:	*Concurrent in MATH 2205*				
MATH 2210	Calculus III		4	C	
Prerequisite:	*C in Math 2205*				
PHYS 1220	Engr Physics II		4	C	
Prerequisite:	*Concurrent in MATH 2210*				
	Total		18		
JUNIOR YEAR					
EE 3220	Signals and Systems		3	C	
Prerequisite:	*C in EE 2220*				
EE 3310	Electronics I		4	C	
Prerequisite:	*Concurrent in EE 2220 and C in PHYS 1220 or C in EE 3150*				
EE 4490	HDL Digital Design		3	D	
Prerequisite:	*C in EE 2390*				
	USP: Communications II	C2	3	C	
Prerequisite:	*C in C1*				
	USP: Human Culture	H	3	D	
	Total		16		
SENIOR YEAR					
One of	COSC 4760(3) OR EE 4870 (4)		3		
Prerequisite:	*Varies*				
EE 3150	Electromagnetics		3	C	
Prerequisite:	*C in ES 2210, MATH 2210, and concurrent in PHYS 1220*				
EE 4820	Senior Design I		2	C	
Prerequisite:	*C in EE 2220, EE 2390, and C2; Concurrent in EE 3310 and 6 credits of 4000-level EE/BE courses*				
	EE or BE Elective (>4000)		3	D	
	USP: US & Wyo Const.	V	3	D	
	Total		14		

SPRING

Course Number	Course Title	USP	CR	Min Grade	Grade
FRESHMAN YEAR					
COSC 1030	Computer Science I		4	C	
Prerequisite:	*C in COSC 1010*				
MATH 2205	Calculus II		4	C	
Prerequisite:	*C in Math 2200*				
EE/ES > 2000	Any ES, EE, BE course (2000 or higher) or COSC 3011 or COSC 3750		3	D	
PHYS 1210	Engr Physics I		4	C	
Prerequisite:	*Concurrent in Math 2205*				
	Total		15		
SOPHOMORE YEAR					
COSC 2150	Computer Organization		3	D	
Prerequisite:	*C in COSC 1030*				
EE 2220	Circuits and Signals		4	C	
Prerequisite:	*C in ES 2210*				
EE 2390	Digital Systems Design		4	C	
Prerequisite:	*C in MATH 2205 and ES 1060 (or COSC 1010 or COSC 1030)*				
MATH 2310	Applied Differential Eqns I		3	C	
Prerequisite:	*C in MATH 2205*				
MATH 2300	Discrete Structures		3	C	
Prerequisite:	*C in MATH 2200 and COSC 1030*				
	Total		17		
JUNIOR YEAR					
EE 3330	Electronics II		4	D	
Prerequisite:	*C in EE 2220 and EE 3310*				
EE 4220	Probabilistic Signals and		3		
Prerequisite:	*C in MATH 2210 and concurrent in EE 3220*				
EE 4390	Microprocessors		3		
Prerequisite:	*C in EE 2390*				
	Math/ Science Elective		3		
	USP: Human Culture	H	3	D	
	Total		16		
SENIOR YEAR					
EE 4830	Senior Design II	C3	2	C	
Prerequisite:	*C in EE 4820, concurrent in design courses*				
	CPEN Elective		3		
	CPEN Elective		3		
	CPEN Elective		3		
	CPEN Elective		3		
	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 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 concurently 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.

2020-2021 Catalog Year