COLLEGE OF ENGINEERING & APPLIED SCIENCE

ELECTRICAL ENGINEERING, BSEE

UW

FALL						SPRING				
Course Number	Course Title	USP	CR	Min Grade	Grade	Course Number	Course Title	USP	CR	Min Grade	Grade

FRESHMAN YEAR

Course Number	Course Title	USP	CR	Min Grade	Grade	Course Number	Course Title	USP	CR	Min Grade	Grade
CHEM 1020	General Chemistry I	PN	4	D		MATH 2205	Calculus II		4	C	
Prerequisite:	ACT Math 23 or concurrent MATH 1400, 1405 or 1450					Prerequisite:	C in Math 2200				
	USP: First Year Seminar	FYS	3	C		EE/ES > 2000	Any ES, EE, BE course (2000 or higher) or COSC 3011 or COSC 3750		3	D	
	USP: Communications I	C1	3	C		MATH 2250	Elementary Linear Algebra		3	C	
						Prerequisite:	C in Math 2200				
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				
ES 1060	Intro to Eng Problem		3	C							
Prerequisite: Concurrent MATH 2200											
	Total		17				**Total**		14		

SOPHOMORE YEAR

Course Number	Course Title	USP	CR	Min Grade	Grade	Course Number	Course Title	USP	CR	Min Grade	Grade
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 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/Science Elective		3	D	
Prerequisite:	Concurrent in MATH 2210										
	USP: Human Culture	H	3	D			USP: US & Wyo Const.	V	3	D	
	Total		17				**Total**		17		

JUNIOR YEAR

Course Number	Course Title	USP	CR	Min Grade	Grade	Course Number	Course Title	USP	CR	Min Grade	Grade
EE 3150	Electromagnetics		3	C		EE 3330	Electronics II		4	D	
Prerequisite:	C in ES 2210, MATH 2210, and concurrent in PHYS 1220					Prerequisite:	C in EE 2220 and EE 3310				
EE 3220	Signals and Systems		3	C		EE 4075	C++ with Num Meth for		4	D	
Prerequisite:	C in EE 2220					Prerequisite:	C in MATH 2205, ES 1060 and either MATH 2250 or MATH 2310				
EE 3310	Electronics I		4	C		EE 4220	Probabilistic Signals and Systems		3	C	
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 3510	Electric Machines and Power Sys.		4	D		EE 4390	Microprocessors		3	D	
Prerequisite:	C in ES 2210					Prerequisite:	C in EE 2390				
	USP: Communications II	C2	3	C		EE 4620	Automatic Control Systems		3	D	
Prerequisite:	C in C1					Prerequisite:	C in EE 2220				
	Total		17				**Total**		17		

SENIOR YEAR

Course Number	Course Title	USP	CR	Min Grade	Grade	Course Number	Course Title	USP	CR	Min Grade	Grade
EE 4440	Communication Theory		3	D		EE 4830	Senior Design II	C3	2	C	
Prerequisite:	C in EE 3220 and EE 4220					Prerequisite:	C in EE 4820 concurrent in design courses				
EE 4820	Senior Design I		2	C			EE or BE Elective (>4000)		3	D	
Prerequisite:	C in EE 2220, EE 2390, and C2; Concurrent in EE 3310 and 6 credits of 4000-level EE/BE courses										
	Technical Elective		4	D			EE or BE Elective (>4000)		3	D	
	EE or BE Elective (>4000)		3	D			EE or BE Elective (>4000)		3	D	
	USP: Human Culture	H	3	D			EE or BE Elective (>4000)		3	D	
	Total		15				**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, Technical, and BE/EE Electives must be selected with advisor's approval from Department list.
- 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.

2020-2021 Catalog Year