

Electrical Engineering, BSEE

Bio-Engineering Option

FALL						SPRING				
Course	Course Title	USP	CR	Min	Grade Course	Course Title USP	CR	Min	Grad	
Number		0.01		Grade	Number			Grade	0111	
HIEM 1020		DN	4		ESHMAN YEAR		_			
	General Chemistry I	PN	4	C		Intro Organic Chem	4	C		
rerequisite:	ACT Math 23 or concurrent MATH				Prerequisite:	D in CHEM 1020				
	USP: First Year Seminar	FYS	3	C	MATH 2205		4	C		
	HOD G	C1		-	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	0	4	С	PHYS 1210		4	С		
	C in Math 1405 or 1450, MPE 5, Mat	Q 5 4CT 27	4 Math S			Engr Physics I Concurrent in Math 2205	4	C		
rerequisite:	Intro to Eng Problem	II ACI ZI	3	C	Prerequisite:	Concurrent in matri 2203			 	
rerequisite:	Concurrent MATH 2200		,	C				ļ		
rerequisite.	Total		17			Total	15			
	10441			SODI	HOMORE YEAI		.,,			
E/ES > 2000	Any ES, EE, BE course (2000 or		3	D	EE 2220	Circuits and Signals	4	C		
E/ E3 ~ 2000	higher) or COSC 3011 or COSC	3750	3	D		C in ES 2210	4	C		
ES 2210	Electric Circuit Analysis	3730	3	С	Prerequisite: EE 2390	Digital Systems Design	4	С	┢	
	Concurrent in MATH 2205)	C		C in MATH 2205 and ES 1060 (or COSC			120)	
rerequisite:	Calculus III		4	С	Prerequisite: LIFE 1010	General Biology I PN	1010 or 4	C C C	,50 <u>)</u>	
rerequisite:	C in Math 2205		4	·	Prerequisite:	ACT Math 23 or concurrent MATH 1400,		-	1	
PHYS 1220	Engr Physics II		4	С	L	Elementary Linear Algebra	3	C		
rerequisite:	Concurrent in MATH 2210		+		Prerequisite:	C in Math 2200	J		1	
rerequisite.	USP: Human Culture	Н	3	D		Applied Differential Eqns I	3	С	1	
	dsi. Haman curture	**	,	D	Prerequisite:	C in MATH 2205	,			
	Total		17		Trerequisite:	Total	18			
				Л	UNIOR YEAR					
E 3220	Signals and Systems		3	С	EE 3331	Electronics II	3	D		
rerequisite:	C in EE 2220				Prerequisite:	C in EE 2220 and either EE 3310 or EE 3311		ļ		
E 3311	Electronics I		3	С	EE 3332	Electronics II Laboratory	1	D		
rerequisite:	Concurrent in EE 2220 and C in PI	HYS 122	0 or C i	n EE 315	O Prerequisite:	Concurrent in EE 3331 (or completed) and	C in EE	3312		
EE 3312	Electronics I Laboratory		1	С	EE 4075	C++ with Num Meth for	4	D		
rerequisite:	Concurrent in EE 3311 (or complete	ed)			Prerequisite:	C in MATH 2205, ES 1060 and either MAT	TH 2250 d	or MATH 2	2310	
EE 3510	Elec Machines & Power Sys		4	D	EE 4390	Microprocessors	3	D		
rerequisite:	C in ES 2210				Prerequisite:	C in EE 2390				
•	USP: Communications II	C2	3	С	MOLB 2021	General Microbiology	4	D		
rerequisite:	C in C1					C in LIFE 1010 and CHEM 1020		ļ		
•	USP: Human Culture	Н	3	D						
	Total		17			Total	15			
					ENIOR YEAR					
SE 4810	Bioinstrumentation		3	D	One of:	BE 4820 or EE 4620	3	D		
rerequisite:	Varies				Prerequisite:	Varies				
E 3150	Electromagnetics		3	C	EE 4220	Probabilistic Signals and Systems	3	D	1	
rerequisite:	C in ES 2210, MATH 2210, and cor	ncurrent			Prerequisite:	C in EE 3220 and MATH 2210				
E 4820	Senior Design I		2	C	EE 4830	Senior Design II C3	2	C		
rerequisite:	C in EE 2220, EE 2390, and C2; (Prerequisite:	C in EE 4820 and concurrent in design con	ırses	ļ		
	3311/3312 and 6 credits of 4000-	-level EE	/BE cou	irses	Trerequisite.					
	Technical Elective		3	D	MOLB 3610	Principles of Biochemistry	4	D		
					Prerequisite:	LIFE 1010 and C in CHEM 2300				
	TYOP TYO O TYY	V	3	D		BE or EE Elective (>4000)	3	D		
	USP: US & Wyo Const.	•								
	,	•								
	USP: US & Wyo Const. Total	•	14			Total Total Program Credits:	15 128			

- 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
- 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. 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 courses that are prerequisites for courses within the students course of study and all required
- EE 1101 is recommended for EE and CPEN majors for their FYS requirement.