

Electrical Engineering, BSEE

Bio-Engineering Option

FALL						SPRING				
Course Number	Course Title	USP	CR	Min Grade	Grade	Course Numbe	r Course Title US	SP (CR	Min Grade
					SHMAI	N YEAR				Grau
CHEM 1020	General Chemistry I	PN	4	C		CHEM 2300	Intro Organic Chem		4	C
rerequisite:	ACT Math 23 or concurrent MATH 1400,	, 1405 o	r 1450			Prerequisite:	D in CHEM 1020			
EE 1010	Intro/Electrical & Computer Eng	3	1	D		MATH 2205	Calculus II		4	C
						Prerequisite:	C in Math 2200			
	USP: Communications I	C1	3	С		EE/ES > 2000	Any ES, EE, BE course (2000 or		3	D
							higher) or COSC 3011 or COSC 3750)		
MATH 2200	Calculus I	Q	4	C		PHYS 1210	Engr Physics I		4	D
rerequisite:	C in Math 1405 or 1450, MPE 5, Math ACT 2	27, Math	SAT 640			Prerequisite:	Concurrent in Math 2205			
COSC 1010	Computational Thinking		3	C						
	Total		15				Total		15	
	Total			SOPI	IOMOR	RE YEAR	Total		13	
EE/ES > 2000	Any ES, EE, BE course (2000 or higher	r) or	3	D		EE 2220	Circuits and Signals		4	С
22, 25 2000	COSC 3011 or COSC 3750	,	•	2		Prerequisite:	C in ES 2210		•	
ES 2210	Electric Circuit Analysis		3	С		EE 2390	Digital Systems Design		4	С
Prerequisite:	Concurrent in MATH 2205					Prerequisite:	C in MATH 2205 and COSC 1010			_
MATH 2210	Calculus III		4	С	1	LIFE 1010	General Biology I Pi	V	4	С
rerequisite:	C in Math 2205					Prerequisite:	ACT Math 23 or concurrent MATH 1400	0. 140	5 or 1	450
PHYS 1220	Engr Physics II		4	С	1	MATH 2250	Elementary Linear Algebra	., .	3	C
Prerequisite:	Concurrent in MATH 2210					Prerequisite:	C in Math 2200			
	USP: Human Culture	Н	3	D	† 1	MATH 2310	Applied Differential Eqns I		3	С
						Prerequisite:	C in MATH 2205			
	Total		17				Total		18	
					JNIOR Y					
EE 3220	Signals and Systems		3	D		EE 3331	Electronics II		3	D
rerequisite:	C in EE 2220					Prerequisite:	C in EE 2220 and either EE 3310 or EE 331	! 1		
EE 3311	Electronics I		3	C		EE 3332	Electronics II Laboratory		1	D
rerequisite:	Concurrent in EE 2220 and C in PHYS 12	20 or C			_	Prerequisite:	Concurrent in EE 3331 (or completed) an	nd C in		
EE 3312	Electronics I Laboratory		1	C		EE 4075	C++ with Num Meth for		4	D
rerequisite:	Concurrent in EE 3311 (or completed)					Prerequisite:	C in MATH 2205, COSC 1010 and either	MATH		
EE 3510	Elec Machines & Power Systems		4	D		EE 4390	Microprocessors		3	D
Prerequisite:	C in ES 2210					Prerequisite:	C in EE 2390			
	USP: Communications II	C2	3	C		MOLB 2021	General Microbiology		4	D
Prerequisite:	C in C1						C in LIFE 1010 and CHEM 1020		_	
	USP: Human Culture	Н	3	D			General Elective		3	D
	Total		17				Total		18	
					ENIOR Y					
BE 4810	Bioinstrumentation		3	D		One of:	BE 4820 or EE 4620		3	D
rerequisite:	Varies					Prerequisite:	Varies 15 15 15 15 15 15 15 15 15 15 15 15 15			
EE 3150	Electromagnetics	DIII.	3	C		EE 4220	Probabilistic Signals and System		3	D
rerequisite:	C in ES 2210, MATH 2210, and concurrent	in PHYS			+	Prerequisite:	C in MATH 2210 and concurrent in EE	5220	2	
EE 4820	Senior Design I		2	C		EE 4830	Senior Design II C3		2	C
Prerequisite:	C in EE 2220, EE 2390, and C2; Concurr and 6 credits of 4000-level EE/BE courses		E 3311/	<i>5512</i>		Prerequisite:	C in EE 4820 and concurrent in design c	ourses		
	3		2	D	+-+	MOLD 2610	Principles of Ricchamistre		1	D
	Technical Elective		3	D		MOLB 3610	Principles of Biochemistry		4	D
	USP: US & Wyo Const.	V	3	D	+	Prerequisite:	RE or FE Flective (>4000)		3	D
	dsi. us & wyo const.	٧	J	ט			BE or EE Elective (>4000)		J	ט
	Total		14				Total		15	
all only or en	oring only course						Total Program Credits:	1	129	

- 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. •Math courses used as a General I 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 concurently with ES 2120. While PHYS 1220 is not a prerequisite for ES 2210, it is recommended that PHYS 1 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 MATH (

