Electrical Engineering, BSEE

Bio-Engineering Option

	TATI					2					
	FALL			Min			SPRING			Min	
ourse Number	Course Title	USP	CR	Grade	Grade	Course Number	Course Title	USP	CR	Grade	Gra
					HMA	N YEAR					
HEM 1020	General Chemistry I	PN	4	С		CHEM 2300	Intro Organic Chem		4	С	
erequisite:	ACT Math 23 or concurrent MATH 1400,		r 1450			Prerequisite:	D in CHEM 1020				
E 1010	Intro/Electrical & Computer Eng	5	1	D		MATH 2205	Calculus II		4	С	
						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	С		PHYS 1210	Engr Physics I		4	С	
rerequisite:	C in Math 1405 or 1450, MPE 5, Math ACT 2	27, Math S	SAT 640			Prerequisite:	Concurrent in Math 2205				
COSC 1010	Computational Thinking		3	С							
	Total		15		<u></u>		Total		15		
			SC		OMO	RE YEAR					
EE/ES > 2000	Any ES, EE, BE course (2000 or higher	r) or	3	D		EE 2220	Circuits and Signals		4	С	
	COSC 3011 or COSC 3750					Prerequisite:	C in ES 2210				
S 2210	Electric Circuit Analysis		3	С]	EE 2390	Digital Systems Design		4	С	1
rerequisite:	Concurrent in MATH 2205					Prerequisite:	C in MATH 2205 and COSC 1010				
AATH 2210	Calculus III		4	С		LIFE 1010	General Biology I	РN	4	С	
rerequisite:	C in Math 2205					Prerequisite:	ACT Math 23 or concurrent MATH	1400, 14	405 or 1	450	
PHYS 1220	Engr Physics II		4	С		MATH 2250	Elementary Linear Algebra		3	С	
rerequisite:	Concurrent in MATH 2210					Prerequisite:	C in Math 2200				
•	USP: Human Culture	Н	3	D		MATH 2310	Applied Differential Eqns I		3	С	
						Prerequisite:	C in MATH 2205				
	Total		17	~~~~	NOD		Total		18		
E 2220			<u>,</u>		NOR	YEAR				D	1
EE 3220	Signals and Systems		3	D		EE 3331	Electronics II	2 2 2 1 1	3	D	
rerequisite:	C in EE 2220			~		Prerequisite:	C in EE 2220 and either EE 3310 or EE	3311			
EE 3311	Electronics I		3	С	1	EE 3332	Electronics II Laboratory		1	D	
rerequisite:	Concurrent in EE 2220 and C in PHYS 12.	20 or C i				Prerequisite:	Concurrent in EE 3331 (or complete	d) and C i			_
EE 3312	Electronics I Laboratory		1	С		EE 4075	C++ with Num Meth for		4	D	
rerequisite:	Concurrent in EE 3311 (or completed)					Prerequisite:	C in MATH 2205, COSC 1010 and e	ither MAT			TH 23
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	С		MOLB 2021	General Microbiology		4	D	
rerequisite:	C in Cl						C in LIFE 1010 and CHEM 1020				
	USP: Human Culture	Н	3	D			General Elective		3	D	
	Total		17				Total		18		
				SEI	NIOR	YEAR					
E 4810	Bioinstrumentation		3	D		One of:	BE 4820 or EE 4620		3	D	
rerequisite:	Varies					Prerequisite:	Varies				1
E 3150	Electromagnetics		3	С		EE 4220	Probabilistic Signals and Sys	stems	3	D	\mathbf{t}
rerequisite:	C in ES 2210, MATH 2210, and concurrent	in PHYS		÷		Prerequisite:	C in MATH 2210 and concurrent in				1
EE 4820	Senior Design I		2	С	1	EE 4830		C3	2	С	+
	C in EE 2220, EE 2390, and C2; Concurrent	ent in F.F				22 1030	Sentor Design II		-	c	1
rerequisite:				JJ.1		Prerequisite:	C in EE 4820 and concurrent in desi	ign course	5		1
	and 6 credits of 4000-level EE/BE courses		2	P		MOLP 2(10	Principles of Pic shamist		4	P	\vdash
	Technical Elective		3	D		MOLB 3610	Principles of Biochemistry		4	D	1
		X 7	2		\vdash	Prerequisite:	LIFE 1010 and C in CHEM 2300		2		\vdash
	USP: US & Wyo Const.	v	3	D			BE or EE Elective (>4000)		3	D	
	Total		14				Total		15		1
			1.1				rotai		1.0		
all only or sp	oring only course						Total Program Credits:		129		

College of Engineering and Physical Sciences

• Math/Science, Technical, and BE/EE Electives must be selected with advisor's approval from Department list. •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 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 MATH courses.