

## **Electrical Engineering, BSEE**

F.M. Long Bio-Engineering Option



	FALL			1.50		SPRING		
ırse nber	Course Title	USP	CR	Min Grade	de Course Number	Course Title	USP CR	Min
Jer					MAN YEAR	₽		Grad
EM 1020	GeneralChemistry I	PN	4	С		) Intro Organic Chem	4	С
equisite:	ACT Math 23 or concurrent MATH				Prerequisite:	C in CHEM 1020		
	USP: First Year Seminar	FYS	3	С	MATH 2205	5 Calculus II	4	С
					Prerequisite:	C in Math 2200		
	USP: Communications I	C1	3	C	EE/ES > 2000	0 Any ES, EE, BE course (2000 or	3	D
						higher) or COSC 3011 or COSC		
	Calculus I	Q	4	C	PHYS 1210	Engr Physics I	4	C
requisite:	C in Math 1405 or 1450, MPE 5, Math	ACI 27,			Prerequisite:	Concurrent in Math 2205		
1060	Intro to Eng Problem Concurrent MATH 2200		3	C				
requisite:	Total		17			Total	15	
	- 3 333			SOPI	MORE YEA			
/ES > 2000	Any ES, EE, BE course (2000 or		3	D	EE 2220	Circuits and Signals	4	С
	higher) or COSC 3011 or COSC 3	750	-	_	Prerequisite:	C in ES 2210	·	
5 2210	Electric Circuit Analysis		3	С	EE 2390	Digital Systems Design	4	С
requisite:	Concurrent in MATH 2205				Prerequisite:	C in MATH 2205 and ES 1060 (or	COSC 1010 o	r COSC I
	Calculus III		4	C	LIFE 1010	General Biology I	PN 4	С
requisite:	C in Math 2205				Prerequisite:	ACT Math 23 or concurrent MATH	1400, 1405 o	
HYS 1220	Engr Physics II		4	C		0 Elementary Linear Algebra	3	C
erequisite:	Concurrent in MATH 2210	**			Prerequisite:	C in Math 2200		
	USP: Human Culture	Н	3	D	MATH 2310 Prerequisite:	O Applied Differential Eqns I C in MATH 2205	3	C
	Total		17		Trerequisite.	Total	18	
				J	OR YEAR			
3220	Signals and Systems		3	C	EE 3330	Electronics II	4	D
requisite:	C in EE 2220				Prerequisite:	C in EE 2220 and EE 3310		
3310	Electronics I		4	C	EE 4075	C++ with Num Meth for	4	D
requisite:	Concurrent in EE 2220 and C in PH				Prerequisite:	C in MATH 2205, ES 1060 and eit.		
3510	Electric Machines and Powe	r Sys.	4	D	EE 4390	Microprocessors	3	D
erequisite:	C in ES 2210	CO	-		Prerequisite:	C in EE 2390		
erequisite:	USP: Communications II	C2	3	C	MOLB 2021	C in LIFE 1010 and CHEM 1020	4	D
equisitei	USP: Human Culture	Н	3	D		om Em E Toro una crem reco		
	Total		17	~	_	Total	15	
4040	ni i				OR YEAR	DE 4020 EE 4622	بالمسا	
E 4810	Bioinstrumentation		3	D	One of:	BE 4820 or EE 4620	3	D
requisite:	Electromagnetics		3	C	Prerequisite: EE 4220	Varies Probabilistic Signals and Sys	stems 3	D
	Electromagnetics C in ES 2210, MATH 2210, and co.	ncurrani		<b>C</b> YS 1220		C in EE 3220 and MATH 2210	tems )	ט
requisite:	Senior Design I	iicui I Elli	2 III FFF	C C	Prerequisite: EE 4830		C3 2	С
requisite:	C in EE 2220, EE 2390, and C2; Co	oncurrer				8		-
ı	and 6 credits of 4000-level EE/BEc				Prerequisite:	C in EE 4820 and concurrent in desi	gncourses	
	Technical Elective*		3	D	MOLB 3610	Principles of Biochemistry	4	D
					Prerequisite:	LIFE 1010 and C- in CHEM 2300		
	Teemment Electric				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
	USP: US & Wyo Const.	v	3	D		BE or EE Elective (>4000)	3	D
		v	3	D		BE or EE Elective (>4000)	3	D

- A minimum of 128 hours is required. A minimum of 42 hours must be upper division.
- Math/Science, Technical, and BE/EEE<sup>l</sup>ectives must be selected with advisor's approval from Department list.
- Degree candidates must meet theacad emic 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 CP EN majors for their FYS requirement.