

ELECTRICAL ENGINEERING/F. M. LONG BIOENGINEERING OPTION

AY 2013-2014

	FALL		SPRING	
FRESHMAN YEAR				
	ES 1000 Orientation to Engr	1	MATH 2205 Calculus II	4
	MATH 2200 Calculus I	4	2,3 PHYS 1210 Engr Physics I	4
2	CHEM 1020 Gen Chemistry I	4	ES 2110 Statics	3
2,8	ES 1060 Engr Problem Solving	3	CHEM 2300 Intro Organic Chem	4
	ENGL 1010 English Comp I	3	9 EE 1010 Intro to ECE	1
	PEAC 1001 PE Activity & Health	1		16
		16		

SOPHOMORE YEAR				
	MATH 2210 Calculus III	4	MATH 2310 Differential Equations I	3
	ES 2120 Dynamics	3	2 EE 2220 Circuits & Signals	4
2	ES 2210 Electric Circuit Analysis	3	2 EE 2390 Digital Systems	4
2,4	PHYS 1220 Engr Physics II	4	MATH 2250 Linear Algebra	3
7	Cultural Context	3		14
		17		

JUNIOR YEAR				
2	EE 3510 Electromechanics	4	EE 4075 Numerical Methods/C++	4
2	EE 3310 Electronics I	4	2 EE 3330 Electronics II	4
	EE 3220 Signals & Systems	3	2 EE 4390 Microprocessors	3
2	LIFE 1010 General Biology	4	2 LIFE 2022 Animal Biology	4
	ENGL 4010 Sci & Tech Writing	3	7 Cultural Context	3
		18		18

SENIOR YEAR				
	EE 4820 Senior Design I	2	1 EE 4830 Senior Design II	2
	EE 4220 Prob Signals & Systems	3	EE 4250 Network Synthesis or	
	EE 3150 Electromagnetics	3	EE 4620 Control Systems	3
2	BE 4810 Bioinstrumentation or	3	MOLB 3610 Biochemistry	4
2	EE 4330 Electronic Systems	4	7 Cultural Context	3
5	EE Elective	3 or 4	US & Wyo Constitutions	3
6	USP/Technical Elective	3		15
		18		

Total Hours: 132

- 1 Normally taken in the final semester
- 2 Course includes laboratory
- 3 No credit can be earned in PHYS 1210 if taken after ES 2120
- 4 It is recommended that PHYS 1220 be taken before or concurrently with ES 2210
- 5 EE Elective: 3 or 4 credits of non-required EE courses offered by the ECE Department
- 6 Additional University Studies (USP) course or technical elective. A technical elective is any course in Engineering, Computer Science, or those marked as technical electives in the ECE Math/Science Elective List.
- 7 Cultural context must meet the following requirements:
 - 1) 1-CH course, 1-CS course, 1-CA course,
 - 2) 1-WB course, 1-G course, 1-D course
- 8 ES 1060 may be replaced with COSC 1010. However, academic credit toward this program is accepted for only one of these classes.
- 9 May be waived if transfer with 31 credits minimum to be replaced with EE elective

Note: Maximum of 1 credit of EE 4800 Co-OP can be counted as an EE or Technical Elective

Note: Transfer credits in above disciplines without UW equivalent will be considered by the ECE faculty individually

Preprofessional Option (Medicine & Dentistry) - Total Hours 138

Substitute CHEM 1030 for CHEM 2300

Add CHEM 2420 & CHEM 2440

Choose between MOLB 3610 (Medicine) or KIN 2110 (Dentistry)