ELECTRICAL ENGINEERING CURRICULUM

AY 2013-2014

FRESHMAN YEAR

	FALL				SPRING		
	ES	1000 Orientation to Engr	1		MATH	2205 Calculus II	4
	MATH	2200 Calculus I	4	**2,4**	PHYS	1210 Engr Physics I	4
2	CHEM	1020 Gen Chemistry I	4		ES	2110 Statics	3
2,10	ES	1060 Engr Problem Solving	3		MATH	2250 Linear Algebra	3
	ENGL	1010 English Comp I	3	**11**	EE	1010 Intro to ECE	1
	PEAC	1001 PE Activity & Health	1			US & Wyo Constitutions	3
			16				18

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
2,5	PHYS	1220 Engr Physics II	4	**6**		Math/Science Elective	3
9		USP/Technical Elective	3				14
			17				

JUNIOR YEAR

	EE	3150 Electromagnetics	3	**2**	EE	3330 Electronics II	4
	EE	3220 Signals & Systems	3	**2**	EE	4390 Microprocessors	3
2	EE	3310 Electronics I	4	**2**	EE	4440 Communication Theory	3
2	EE	3510 Electromechanics	4		EE	4620 Control Systems	3
8		Cultural Context	3		EE	4075 Numerical Methods/C++	4
			17				17

SENIOR YEAR

	EE	4820 Senior Design I	2	**1**	EE	4830 Senior Design II	2
	EE	4220 Prob Signals & Systems	3	**3**		EE Elective	3
3		EE Elective	3	**3**		EE Elective	3
3		EE Elective	3	**3**		EE Elective	2
8		Cultural Context	3	**7**		Technical Elective	3
	ENGL	4010 Sci & Tech Writing	3			Cultural Context	3
			17				16

Total Hours: **132**

1 Normally taken in the final semester

2 Course includes laboratory

3 EE Elective: 14 credits of non-required EE courses offered by the ECE Department. Suggestions are as follows:
- Electronics: EE 4250, 4300, 4330, 4340, 4360, 4380, 4560, BE 4810
- Comm/Signal Processing: EE 4230, 4240, 4300, 4530, 4870
- Systems & Controls: EE 4620, 5210, 5400
- Power Engineering: EE 4510, 4540, 4550, 4560
- Digital/Computer: EE 4070, 4230, 4490, 4970, 4990

4 No credit can be earned in PHYS 1210 if taken after ES 2120

5 It is recommended that PHYS 1220 should be taken before or concurrently with ES 2210

6 Math/Science Elective: Any course from the ECE Math/Science Elective List. ABET requires a minimum of 32 hours of a combination of college level mathematics and basic sciences (some with experimental experience) appropriate to the discipline. Basic sciences are defined as biological, chemical, and physical sciences.

7 Technical Elective: Any course in Engineering, Computer Science, or those marked as technical electives in the ECE Math/Science Elective List

8 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

9 Additional University Studies (USP) course or technical elective

10 ES 1060 may be replaced with COSC 1010. However, academic credit toward this program is accepted for only one of these classes.

11 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

Updated: 03/01/13