

COMPUTER ENGINEERING CURRICULUM

AY 2013-2014

FALL		FRESHMAN YEAR		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 COSC	1010 Intro to Comp Sci I	4	2 COSC	1030 Computer Science I	4
ENGL	1010 English Comp I	3	10 EE	1010 Intro to ECE	1
PEAC	1001 PE Activity & Health	1			
		17			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	MATH	2300 Discrete Structures	3
2,5 PHYS	1220 Engr Physics II	4	COSC	2150 Computer Organization	3
2 COSC	2030 Computer Science II	4	2 EE	2390 Digital Systems	4
		18			17
		JUNIOR YEAR			
EE	3220 Signals & Systems	3	EE	3150 Electromagnetics	3
2 EE	3310 Electronics I	4	2 EE	3330 Electronics II	4
EE	4490 HDL Digital Design	3	2 EE	4390 Microprocessors	3
9	USP/Technical Elective	3	6	Math/Science Elective	3
8	Cultural Context	3	8	Cultural Context	3
		16			16
		SENIOR YEAR			
EE	4820 Senior Design I	2	1 EE	4830 Senior Design II	2
2 EE	4870 Network Hardware or	4	3	CPEN Option Course	3
COSC	4760 Computer Networks	3	3	CPEN Option Course	3
7	EE/COSC Elective	3	7	EE/COSC Elective	3 or 4
EE	4220 Prob Signals & Systems	3	8	Cultural Context	3
ENGL	4010 Sci & Tech Writing	3			
	US & Wyo Constitutions	3			
		18 or 17			14 or 15

Total Hours: 132

- 1 Normally taken in the final semester
- 2 Course includes laboratory
- 3 CPEN Option Courses (complete any two): EE 4245, 4360, 4530, 4590, 4870, 4970, 4990, 5410, 5630, 5650; COSC 3020, 4550, 4560, 4740, 4760, 4840
 Note: Many of these courses have pre-requisites. Students must insure required pre-requisites are completed.
- 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 EE/COSC Elective: Any EE or COSC course at the 4000 or 5000 level
- 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.
Needs to be at the 3000+ level in order to meet the 48 hours of upper division coursework.
- 10 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