ELECTRICAL ENGINEERING, BSEE

University of Wyoming — College of Engineering and Applied Science

FALL / SPRING

Course Number	Course Title	USP	CR	Min Grade	Grade	Course Number	Course Title	USP	CR	Min Grade	Grade
FRESHMAN YEAR											
CHEM 1020	**General Chemistry I**	PN	4	D		**MATH 2205**	**Calculus II**		4	C	
Prerequisite:	*ACT Math 23 or concurrent MATH 1400, 1405 or 1450*					*Prerequisite:*	*C in Math 2200*				
	USP: First Year Seminar	FYS	3	C		**EE/ES > 2000**	**Any ES, EE, BE course (2000 or higher) or COSC 3011 or COSC 3750**		3	D	
	USP: Communications I	C1	3	C		**MATH 2250**	**Elementary Linear Algebra**		3	C	
						Prerequisite:	*C in Math 2200*				
MATH 2200	**Calculus I**	Q	4	C		**PHYS 1210**	**Engr Physics I**		4	C	
Prerequisite:	*C in Math 1405 or 1450, MPE 5, Math ACT 27, Math SAT 640*					*Prerequisite:*	*Concurrent in Math 2205*				
ES 1060	**Intro to Eng Problem**		3	C							
Prerequisite:	*Concurrent MATH 2200*										
	Total		**17**				**Total**		**14**		
SOPHOMORE YEAR											
EE/ES > 2000	**Any ES, EE, BE course (2000 or higher) or COSC 3011 or COSC 3750**		3	D		**EE 2220**	**Circuits and Signals**		4	C	
						Prerequisite:	*C in ES 2210*				
ES 2210	**Electric Circuit Analysis**		3	C		**EE 2390**	**Digital Systems Design**		4	C	
Prerequisite:	*Concurrent in MATH 2205*					*Prerequisite:*	*C in MATH 2205 and ES 1060 (or COSC 1010 or COSC 1030)*				
MATH 2210	**Calculus III**		4	C		**MATH 2310**	**Applied Differential Eqns I**		3	C	
Prerequisite:	*C in Math 2205*					*Prerequisite:*	*C in MATH 2205*				
PHYS 1220	**Engr Physics II**		4	C			**Math/Science Elective**		3	D	
Prerequisite:	*Concurrent in MATH 2210*										
	USP: Human Culture	H	3	D			**USP: US & Wyo Const.**	V	3	D	
	Total		**17**				**Total**		**17**		
JUNIOR YEAR											
EE 3150	**Electromagnetics**		3	C		**EE 3331**	**Electronics II**		3	D	
Prerequisite:	*C in ES 2210, MATH 2210, and concurrent in PHYS 1220*					*Prerequisite:*	*C in EE 2220 and either EE 3310 or EE 3311*				
EE 3220	**Signals and Systems**		3	C		**EE 3332**	**Electronics II Laboratory**		1	D	
Prerequisite:	*C in EE 2220*					*Prerequisite:*	*Concurrent in EE 3331 (or completed) and C in EE 3312*				
EE 3311	**Electronics I**		3	C		**EE 4075**	**C++ with Num Meth for Probabilistic Signals and Systems**		4	D	
Prerequisite:	*Concurrent in EE 2220 and C in PHYS 1220 or C in EE 3150*					*Prerequisite:*	*C in MATH 2205, ES 1060 and either MATH 2250 or MATH 2310*				
EE 3312	**Electronics I Laboratory**		1	C		**EE 4220**			3	C	
Prerequisite:	*Concurrent in EE 3311 (or completed)*					*Prerequisite:*	*C in MATH 2210 and concurrent in EE 3220*				
EE 3510	**Elec Machines & Power Sys**		4	D		**EE 4390**	**Microprocessors**		3	D	
Prerequisite:	*C in ES 2210*					*Prerequisite:*	*C in EE 2390*				
	USP: Communications II	C2	3	C		**EE 4620**	**Automatic Control Systems**		3	D	
Prerequisite:	*C in C1*					*Prerequisite:*	*C in EE 2220*				
	Total		**17**				**Total**		**17**		
SENIOR YEAR											
EE 4440	**Communication Theory**		3	D		**EE 4830**	**Senior Design II**	C3	2	C	
Prerequisite:	*C in EE 3220 and EE 4220*					*Prerequisite:*	*C in EE 4820 concurrent in design courses*				
EE 4820	**Senior Design I**		2	C			**EE or BE Elective (>4000)**		3	D	
Prerequisite:	*C in EE 2220, EE 2390, and C2; Concurrent in EE 3311/3312 and 6 credits of 4000-level EE/BE courses*										
	Technical Elective		4	D			**EE or BE Elective (>4000)**		3	D	
	EE or BE Elective (>4000)		3	D			**EE or BE Elective (>4000)**		3	D	
	USP: Human Culture	H	3	D			**EE or BE Elective (>4000)**		3	D	
	Total		**15**				**Total**		**14**		

Fall only or spring only course

Total Program Credits: 128

- **A minimum of 128 hours is required.   • A minimum of 42 hours must be upper division.**
- **Math/Science, Technical, and BE/EE Electives must be selected with advisor's approval from Department list.**
- **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 concurrently 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.**
- **EE 1101 is recommended for EE and CPEN majors for their FYS requirement.**