Electrical Engineering, BS (2014-2015)



Notes: (S.O.) offered Spring semester ONLY (F.O.) offered Fall semester ONLY

*Students must have a minimum cumulative GPA of 2.0 in all Engineering course for graduation.

Credit hours subtotal:

Grade of C (2.0) or higher is required for all prerequisite courses.

Students must complete a minimum of 42 hours of upper division coursework, 30 of which must from the University of Wyoming.

EE 1010 may be replaced with a technical elective if transfer credits >30 hrs.

PHYS 1210: no credit can be earned in PHYS 1210 if taken after ES 2120. PHYS 1220 should be taken before or concurrently with ES 2210.

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Math/Science Elective: One 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.

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University of Wyoming

Junior	Fall	Semester	Hrs	Min Grade	Notes
EE	3150	Electromagnetics	3	*	(F.O.) Prerequisites: ES2210 or PHYS 1220 and MATH 2210.
EE	3220	Signals And Systems	3	С	(F.O.) Prerequisite: EE 2220.
EE	3310	Electronics I	4	С	(F.O.) Prerequisites: PHYS 1220 or PHYS 1320 and corequisite: EE 2220.
EE	3510	Electromechanics	4	С	(F.O.) Prerequisite: ES 2210 and corequisite EE 2220.
		Communication 2 course	3	С	COM 2
		Credit hours subtotal:	<u>17</u>		
Junior	Spri	ng Semester	Hrs	Min Grade	Notes
EE	3330	Electronics II	4	*	(S.O.) Prerequisite: EE 2220 and EE 3310
EE	4075	C++ with Numerical Methods for Engineers	4	*	(S.O.) Prerequisites: MATH 2205 and (COSC 1010 or ES 1060) and (MATH 2250 or 2310) or consent of instructor.
EE	4220	Probabilistic Signals and Systems	3	С	(S.O.) Prerequisite: EE 3220 and MATH 2210
EE	4390	Microprocessors	3	*	(S.O.) Prerequisite: EE 2390.
EE	4620	Automatic Control Systems	3	*	(S.O.) Prerequisite: EE 2220.
		Credit hours subtotal:	<u>17</u>		
Senior	r Fall	Semester	Hrs	Min Grade	Notes
EE	4440	Communication Theory	3	*	(F.O.) Prerequisite: EE 3220 and EE 4220.
EE	4820	Senior Design I	2	С	(F.O.) Prerequisites: COM2; EE 2390 and corequisite EE 3330
		EE Elective	4	*	
		EE Elective	3	*	
		Human Culture course	3	D	H#2
		Credit hours subtotal:	<u>15</u>		
Senior	r Spri	ng Semester	Hrs		Notes
EE	4830	Senior Design II	2	С	COM3; (S.O.) Prerequisites: COM2; EE 4820 and corequisite course in the area of the design project
		EE Elective	3	*	
		EE Elective	3	*	
		EE Elective	3	*	
		Technical Elective	3 or 4	*	
		Credit hours subtotal:	<u>15</u>		
TOTAL CREDIT HOURS: <u>130</u>					
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Students must complete a minimum of 48 hours of upper division coursework, 30 of which must from the University of Wyoming

EE Electives: A minimum of 19 hours of EE and technical electives is required. A minimum of 16 credit hours 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, BE 4820

Comm/Signal Processing: EE 4245, 4300, 4345, 4530, 4870

Systems & Controls: EE 5210, 5400

Power Engineering: EE 4510, 4540, 4550, 4560

Digital/Computer: EE 4070, 4360, 4490, 4590, 4870, 4970, 4990

Technical Elective: Any course marked as technical electives in the ECE Math/Science Elective List.

COM3 to satisfy this requirement with EE 4820/4830 the COM2 course must be taken before EE 4820.

Also EE 4820 and EE 4830 must be taken in sequence.

 $\ensuremath{\mathsf{EE}}$ 4830 is ideally taken in the final semester.