Electrical Engineering BS (2015-2016)

F.M. Long Bio-Engineering Option

University of Wyoming

PHYS 1220 Engineering Physics II 4 C enrollment in MATH 2210. Human Culture course 3 D H#1 Credit hours subtotal: 17 Sophomore Spring Semester Hrs Min Grade Notes EE 2220 Circuits and Signals 4 C (S.O.) Prerequisite: ES 2210 EE 2390 Digital Systems Design 4 C Prerequisites: COSC 1010 or COSC 1030 or ES 1060 and corequisite MATH 2210 LIFE 1010 General Biology 4 C Prerequisites: grade of C or better in MATH 0921 or level 2 on the MPE or math ACT of 21 or math SAT of 600. MATH 2250 Elementary Linear Algebra 3 C Prerequisite: grade of C or better in MATH 2200 or 2350. Prerequisite: grade of C or better in MATH 2205. (Note: MATH 2210 is	ENGL 1010 College Composition & Rhetoric 3 C COM1			or wyoming			
FYS 1101	Sophomore Fall Semester Hrs Min Grade Prerequisite: grade of C or better in MATH 2200 or AP credit in MATH 2200 Prerequisite: grade of C or better in MATH 2200 or AP credit in MATH 2201 Engineering Physics Hrs Min Grade Prerequisite: grade of C or better in MATH 2200 or AP credit in MATH 2200 Engineering Physics Hrs Min Grade Prerequisite: grade of C or better in MATH 2200 or AP credit in MATH 2200 or COSCI030 or ES 1000 and corequisite 2000 or AP credit in MATH 2200 or COSCI030 or ES 1000 and corequisite 2000 or AP credit in MATH 2200 or AP credit in MATH 2200 or AP credit in MATH 2200 or AP credit in MATH	Freshn	nan F	Fall Semester	Hrs	Min Grade	Notes
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Credit hours subtotal: 17	Chem 1020 General Chemistry	FYS	1101		3	С	FYS
MATH 200 Calculus	MATH 2200 Calculus I 4 C Credit hours subtotal: 1Z Freshman Spring Semester Hrs Min Grade Notes CHEM 2300 Introductory Organic Chemistry 4 C Prerequisite: CHEM 1020, 1050, 1000 or equivalent. EE 1010 Intro to Electrical and Computer Engineering 1 C (S.O.) ES 2110 Statics 3 C Prerequisite: GHEM 1020, 1050, 1000 or equivalent. EE 1010 Intro to Electrical and Computer Engineering 1 C (S.O.) ES 2110 Statics 3 C Prerequisite: grade of C or better in MATH 2200 or AP credit in MA 2200. Calculus II 4 C 2200. PHYS 1210 Engineering Physics I 4 C Prerequisite: grade of C or better in MATH 2200 or AP credit in MA 2200. Credit hours subtotal: 16 Sophomore Fall Semester Hrs Min Grade Notes ES 2120 Dynamics 3 C Prerequisite: ES 2110 and MATH 2205; PHYS 1210 or concurrent enrollment. ES 2120 Electric Circuit Analysis 3 C Prerequisite: ES 2110 and MATH 2205; PHYS 1210 or concurrent enrollment. EMATH 2210 Calculus III 4 C C 2205. MATH 2210 Engineering Physics II 4 C C Prerequisite: ES 2110 and MATH 2205 or AP credit in MA 2210. Engineering Physics II 4 C C Prerequisite: ES 210 and MATH 2200 and 2205, and concurrent enrollment in MATH 2210. Credit hours subtotal: 17 Sophomore Spring Semester Hrs Min Grade Notes EE 2220 Circuits and Signals 4 C (S.O.) Prerequisite: ES 2210 EE 2390 Digital Systems Design 4 C Prerequisite: ES 2210 Frerequisite: grade of C or better in MATH 2200 and 2205, and concurrent in MATH 2210. Prerequisite: ES 2210 EE 2390 Digital Systems Design 4 C Prerequisite: ES 2210 Frerequisite: grade of C or better in MATH 02210 or es 1060 and corequisite 2010 and 2010 or Concurrent enrollment in MATH 2210. Prerequisite: ES 2210 EE 2390 Digital Systems Design 4 C Prerequisite: grade of C or better in MATH 2200 or 2350. Prerequisite: grade of C or better in MATH 2205. Notes MATH 2210 EE 2390 Elementary Linear Algebra 3 C Prerequisite: grade of C or better in MATH 2205. Notes MATH 2210	СНЕМ	1020	General Chemistry I	4	D	
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ES 2120 Dynamics 3 C enrollment. ES 2210 Electric Circuit Analysis 3 C Prerequisite: MATH 2205. MATH 2210 Calculus III 4 C 2205. PHYS 1220 Engineering Physics II 4 C Prerequisite: grade of C or higher in MATH 2200 and 2205, and concurrent enrollment in MATH 2210. Human Culture course 3 D H#1 Credit hours subtotal: 17 Sophomore Spring Semester Hrs Min Grade Notes EE 2220 Circuits and Signals 4 C (S.O.) Prerequisite: ES 2210 EE 2390 Digital Systems Design 4 C Prerequisites: grade of C or better in MATH 2921 or level 2 on the MPE or math ACT of 21 or math SAT of 600. MATH 2250 Elementary Linear Algebra 3 C Prerequisite: grade of C or better in MATH 2205 or Prerequisite: grade of C or better in MATH 2200 or 2350. Prerequisite: grade of C or better in MATH 2200 or 2350. Prerequisite: grade of C or better in MATH 2205 or NATH 2210 is prerequisite: grade of C or better in MATH 2205 or NATH 2210 is prerequisite: grade of C or better in MATH 2205 or NATH 2210 is prerequisite: grade of C or better in MATH 2205 or NATH 2210 is prerequisite: grade of C or better in MATH 2205 or NATH 2210 is prerequisite: grade of C or better in MATH 2205 or NATH 2210 is prerequisite: grade of C or better in MATH 2205 or NATH 2210 is prerequisite: grade of C or better in MATH 2205 or NATH 2210 is prerequisite: grade of C or better in MATH 2205 or NATH 2210 is prerequisite: grade of C or better in MATH 2205 or NATH 2210 is prerequisite: grade of C or better in MATH 2205 or NATH 2210 is prerequisite: grade of C or better in MATH 2205 or NATH 2210 is prerequisite: grade of C or better in MATH 2205 or NATH 2210 is prerequisite: grade of C or better in MATH 2205 or NATH 2210 is prerequisite: grade of C or better in MATH 2205 or NATH 2210 is prerequisite: grade of C or better in MATH 2205 or NATH 2210 is prerequisite: grade of C or better in MATH 2205 or NATH 2210 is prerequisite: grade of C or better in MATH 2205 or NATH 2210 is prerequisite: grade of C or better in MATH 2205 or NATH 2210 is prerequisite: grade of C or better in MATH	ES 2120 Dynamics 3 C enrollment. ES 2210 Electric Circuit Analysis 3 C Prerequisite: MATH 2205. MATH 2210 Calculus III 4 C 2205. PHYS 1220 Engineering Physics II 4 C enrollment in MATH 2210. Human Culture course 3 D H#1 Credit hours subtotal: 17 Sophomore Spring Semester Hrs Min Grade Notes EE 2220 Circuits and Signals 4 C (\$.0.) Prerequisite: ES 2210 EE 2390 Digital Systems Design 4 C Prerequisite: COSC 1010 or COSC 1030 or ES 1060 and corequisite 210 or the Math 2200 or 2350. MATH 2250 Elementary Linear Algebra 3 C Prerequisite: grade of C or better in MATH 2200 or 2350. Prerequisite: grade of C or better in MATH 2200 or 2350. Prerequisite: grade of C or better in MATH 2200 or 2350. Prerequisite: grade of C or better in MATH 2200 or 2350.	Sophor	more	Fall Semester	Hrs	Min Grade	Notes
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Sophomore Spring Semester Hrs Min Grade Notes EE 2220 Circuits and Signals 4 C (S.O.) Prerequisite: ES 2210 EE 2390 Digital Systems Design 4 C Prerequisites: COSC 1010 or COSC1030 or ES 1060 and corequisite MATH 2210 LIFE 1010 General Biology 4 C Prerequisites: grade of C or better in MATH 0921 or level 2 on the MPE or math ACT of 21 or math SAT of 600. MATH 2250 Elementary Linear Algebra 3 C Prerequisite: grade of C or better in MATH 2200 or 2350. Prerequisite: grade of C or better in MATH 2200. (Note: MATH 2210 is	Sophomore Spring Semester Hrs Min Grade Notes EE 2220 Circuits and Signals 4 C (S.O.) Prerequisite: ES 2210 Prerequisites: COSC 1010 or COSC1030 or ES 1060 and corequisite 2210 LIFE 1010 General Biology 4 C Prerequisites: grade of C or better in MATH 0921 or level 2 on the Math ACT of 21 or math SAT of 600. MATH 2250 Elementary Linear Algebra 3 C Prerequisite: grade of C or better in MATH 2200 or 2350. Prerequisite: grade of C or better in MATH 2205. (Note: MATH 2210)	MATH	2210 2210	Electric Circuit Analysis Calculus III Engineering Physics II	3 4 4	C C	Prerequisite: MATH 2205. Prerequisite: grade of C or better in MATH 2205 or AP credit in MATH 2205. Prerequisites: grades of C or higher in MATH 2200 and 2205, and concurrent enrollment in MATH 2210.
EE 220 Circuits and Signals 4 C (S.O.) Prerequisite: ES 2210 EE 2390 Digital Systems Design 4 C Prerequisites: COSC 1010 or COSC1030 or ES 1060 and corequisite MATH 2210 LIFE 1010 General Biology 4 C Prerequisites: grade of C or better in MATH 0921 or level 2 on the MPE or math ACT of 21 or math SAT of 600. MATH 2250 Elementary Linear Algebra 3 C Prerequisite: grade of C or better in MATH 2200 or 2350. Prerequisite: grade of C or better in MATH 2200. (Note: MATH 2210 is	EE 2220 Circuits and Signals 4 C (S.O.) Prerequisite: ES 2210 Prerequisites: COSC 1010 or COSC1030 or ES 1060 and corequisite 2210 LIFE 1010 General Biology 4 C Prerequisites: grade of C or better in MATH 0921 or level 2 on the Math ACT of 21 or math SAT of 600. MATH 2250 Elementary Linear Algebra 3 C Prerequisite: grade of C or better in MATH 2200 or 2350. Prerequisite: grade of C or better in MATH 2200. (Note: MATH 2210 A. d. i. b. D. (S.O.) Prerequisite: ES 2210 Prerequisite: grade of C or better in MATH 2200 or 2350. Prerequisite: grade of C or better in MATH 2205. (Note: MATH 2210 A. d. i. b. D. (S.O.) Prerequisite: grade of C or better in MATH 2205.	MATH	2210 2210	Electric Circuit Analysis Calculus III Engineering Physics II Human Culture course	3 4 4 3	C C	Prerequisite: MATH 2205. Prerequisite: grade of C or better in MATH 2205 or AP credit in MATH 2205. Prerequisites: grades of C or higher in MATH 2200 and 2205, and concurrent enrollment in MATH 2210.
Prerequisites: COSC 1010 or COSC1030 or ES 1060 and corequisite MATH 2210 Prerequisites: grade of C or better in MATH 0921 or level 2 on the MPE or math ACT of 21 or math SAT of 600. MATH 2250 Elementary Linear Algebra 3 C Prerequisite: grade of C or better in MATH 2200 or 2350. Prerequisite: grade of C or better in MATH 2205. (Note: MATH 2210 is	EE 2390 Digital Systems Design 4 C Prerequisites: COSC 1010 or COSC1030 or ES 1060 and corequisite 2210 Prerequisites: grade of C or better in MATH 0921 or level 2 on the M math ACT of 21 or math SAT of 600. MATH 2250 Elementary Linear Algebra 3 C Prerequisite: grade of C or better in MATH 2200 or 2350. Prerequisite: grade of C or better in MATH 2205. (Note: MATH 2210 A discount of the Math	MATH PHYS	2210 2210 1220	Electric Circuit Analysis Calculus III Engineering Physics II Human Culture course Credit hours subtotal:	3 4 4 3 <u>17</u>	C C D	Prerequisite: MATH 2205. Prerequisite: grade of C or better in MATH 2205 or AP credit in MATH 2205. Prerequisites: grades of C or higher in MATH 2200 and 2205, and concurrent enrollment in MATH 2210. H#1
EE 2390 Digital Systems Design 4 C 2210 LIFE 1010 General Biology 4 C Prerequisites: grade of C or better in MATH 0921 or level 2 on the MPE or math ACT of 21 or math SAT of 600. MATH 2250 Elementary Linear Algebra 3 C Prerequisite: grade of C or better in MATH 2200 or 2350. Prerequisite: grade of C or better in MATH 2205. (Note: MATH 2210 is	EE 2390 Digital Systems Design 4 C 2210 LIFE 1010 General Biology 4 C Prerequisites: grade of C or better in MATH 0921 or level 2 on the M math ACT of 21 or math SAT of 600. MATH 2250 Elementary Linear Algebra 3 C Prerequisite: grade of C or better in MATH 2200 or 2350. Prerequisite: grade of C or better in MATH 2205. (Note: MATH 221)	MATH PHYS	2210 2210 1220	Electric Circuit Analysis Calculus III Engineering Physics II Human Culture course Credit hours subtotal:	3 4 4 3 <u>17</u>	C C D	Prerequisite: MATH 2205. Prerequisite: grade of C or better in MATH 2205 or AP credit in MATH 2205. Prerequisites: grades of C or higher in MATH 2200 and 2205, and concurrent enrollment in MATH 2210. H#1
LIFE 1010 General Biology 4 C math ACT of 21 or math SAT of 600. MATH 2250 Elementary Linear Algebra 3 C Prerequisite: grade of C or better in MATH 2200 or 2350. Prerequisite: grade of C or better in MATH 2205. (Note: MATH 2210 is	LIFE 1010 General Biology 4 C math ACT of 21 or math SAT of 600. MATH 2250 Elementary Linear Algebra 3 C Prerequisite: grade of C or better in MATH 2200 or 2350. Prerequisite: grade of C or better in MATH 2205. (Note: MATH 221	MATH PHYS Sophor	2210 2210 1220	Electric Circuit Analysis Calculus III Engineering Physics II Human Culture course Credit hours subtotal: Spring Semester	3 4 4 3 17 Hrs	C C D	Prerequisite: MATH 2205. Prerequisite: grade of C or better in MATH 2205 or AP credit in MATH 2205. Prerequisites: grades of C or higher in MATH 2200 and 2205, and concurrent enrollment in MATH 2210. H#1 Notes (S.O.) Prerequisite: ES 2210
Prerequisite: grade of C or better in MATH 2205. (Note: MATH 2210 is	Prerequisite: grade of C or better in MATH 2205. (Note: MATH 221	MATH PHYS Sophore	2210 2210 1220 more 2220	Electric Circuit Analysis Calculus III Engineering Physics II Human Culture course Credit hours subtotal: Spring Semester Circuits and Signals	3 4 4 3 17 Hrs	C C D Min Grade	Prerequisite: MATH 2205. Prerequisite: grade of C or better in MATH 2205 or AP credit in MATH 2205. Prerequisites: grades of C or higher in MATH 2200 and 2205, and concurrent enrollment in MATH 2210. H#1 Notes (S.O.) Prerequisite: ES 2210 Prerequisites: COSC 1010 or COSC1030 or ES 1060 and corequisite MATH 2210.
MATH 2210 A 1: 1D:00 4: 1E 4: 1	MATH 2210 A 1: ID:00 at ID at I 2 C	MATH PHYS Sophore EE EE	2210 2210 1220 more 2220 2390	Electric Circuit Analysis Calculus III Engineering Physics II Human Culture course Credit hours subtotal: Spring Semester Circuits and Signals Digital Systems Design	3 4 4 3 17 Hrs 4	C C D Min Grade C C	Prerequisite: MATH 2205. Prerequisite: grade of C or better in MATH 2205 or AP credit in MATH 2205. Prerequisites: grades of C or higher in MATH 2200 and 2205, and concurrent enrollment in MATH 2210. H#1 Notes (S.O.) Prerequisite: ES 2210 Prerequisites: COSC 1010 or COSC1030 or ES 1060 and corequisite MATH 2210. Prerequisites: grade of C or better in MATH 0921 or level 2 on the MPE or
	reduired for the seduel.)	MATH PHYS Sophore EE EE LIFE	2210 2210 1220 more 2220 2390 1010	Electric Circuit Analysis Calculus III Engineering Physics II Human Culture course Credit hours subtotal: Spring Semester Circuits and Signals Digital Systems Design General Biology	3 4 4 3 17 Hrs 4 4	C C D Min Grade C C C	Prerequisite: MATH 2205. Prerequisite: grade of C or better in MATH 2205 or AP credit in MATH 2205. Prerequisites: grades of C or higher in MATH 2200 and 2205, and concurrent enrollment in MATH 2210. H#1 Notes (S.O.) Prerequisite: ES 2210 Prerequisites: COSC 1010 or COSC1030 or ES 1060 and corequisite MATH 2210 Prerequisites: grade of C or better in MATH 0921 or level 2 on the MPE or math ACT of 21 or math SAT of 600. Prerequisite: grade of C or better in MATH 2200 or 2350.
	·	MATH PHYS Sophore EE EE LIFE MATH	2210 2210 1220 more 2220 2390 1010 2250	Electric Circuit Analysis Calculus III Engineering Physics II Human Culture course Credit hours subtotal: Spring Semester Circuits and Signals Digital Systems Design General Biology	3 4 4 3 17 Hrs 4 4 4	C C D Min Grade C C C C	Prerequisite: MATH 2205. Prerequisite: grade of C or better in MATH 2205 or AP credit in MATH 2205. Prerequisites: grades of C or higher in MATH 2200 and 2205, and concurrent enrollment in MATH 2210. H#1 Notes (S.O.) Prerequisite: ES 2210 Prerequisites: COSC 1010 or COSC1030 or ES 1060 and corequisite MATH 2210 Prerequisites: grade of C or better in MATH 0921 or level 2 on the MPE or math ACT of 21 or math SAT of 600. Prerequisite: grade of C or better in MATH 2200 or 2350.

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

Students must complete a minimum of 48 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 \geq 30 hours

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.

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

^{*}Students must have a minimum cummulative GPA of 2.0 in all Engineering course for graduation.

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

Electrical Engineering, BS F.M. Long Bio-Engineering Option

University of Wyoming

		Semester	Hrs	Min Grade	Notes
EE	3220	Signals and Systems	3	С	(F.O.) Prerequisite: EE 2220.
EE	3310	Electronics I	4	*	(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	COM2
		Human Culture course	3	D	H#2
		Credit hours subtotal:	<u>17</u>		
Junior	Spri	ng Semester	Hrs	Min Grade	Notes
EE	3330	Electronics II	4	С	(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	4390	Microprocessors	3	*	(S.O.) Prerequisite: PHYS 1220 or ES 2210 and EE 2390.
MOLB	2021	General Microbiolgoy	4	*	Prerequisites: a grade of C or better in LIFE 1010 and CHEM 1000 or 1020.
		US/Wyoming Constitution Course	3	D	V
		Credit hours subtotal:	<u>18</u>		
Senior	Fall	Semester	Hrs	Min Grade	Notes
BE	4810	Bioinstrumentation	3		(F.O.) Prerequisites: ES 3330.
		or EE 4330 Electronic System Design	(4)	*	Prerequisites: EE 2390 and 3330.
EE	3150	Electromagnetics	3	С	(F.O.) Prerequisites: ES 2210 or PHYS 1220 and MATH 2210.
EE	4820	Senior Design I	2	С	(F.O.) Prerequisites: COM2; EE 2390 and corequisite EE 3330
		General Elective	3	*	Any ≥1000 level course (MATH course must be >Math 2210)
		Technical Elective or Cultural Context Elective	3	*	
		Credit hours subtotal:	<u>14</u>		
Senior	Spri	ng Semester	Hrs	Min Grade	Notes
BE	4820	Biodata Systems	3	С	(S.O.) Prerequisites: basic course or equivalent in electronics, ZOO 4240 or concurrent enrollment
		or EE 4620 Automatic Control Systems	(3)	*	(S.O.) Prerequisite: EE 2220.
EE	4220	Probabilistic Signals and Systems	3	С	(S.O.) Prerequisite: EE 3220 and MATH 2210.
EE	4830	Senior Design II	2	*	COM3; (S.O.) Prerequisites: EE 4820 and EE 3330.
MOLB	3610	Principles of Biochemistry	4	С	Prerequisite: LIFE 1010 and a grade of C or better in CHEM 2300 or 2440
		EE Elective	3	*	

Notes:

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

EE Elective: any non-required EE course.

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

TOTAL CREDIT HOURS:

EE 4830 is ideally taken in the final semester.

Options for Medical School (pre-med) and related programs (Note: total hours will exceed 132).

Visit the Preprofessional Health Advisory Office, College of Health Sciences for advising.

Substitute CHEM 1030 for CHEM 2300; Add CHEM 2420 & CHEM 2440; MOLB 3610, and add MOLB 4100 (Medicine) or ZOO 3115 (Dentistry)

Rev: 5/15/2018