	FALL					SPRING			
Course	Course Title	USP	CR	Min Grade	Course Numbe		CR	Min	Grad
Number	Course Thie	0.51	CK	Grade	IAN YEAR		CK	Grade	Grau
CHEM 1020	General Chemistry I	PN	4	D	MATH 2205	Calculus II	4	С	<u> </u>
Prerequisite:	ACT Math 23 or concurrent MATH				Prerequisite:	C in Math 2200	•	e	
	USP: First Year Seminar	FYS	3	С	EE/ES > 2000	Any ES, EE, BE course (2000 or higher) or COSC 3011 or COSC 3750	3	D	
	USP: Communications I	C1	3	С	MATH 2250 Prerequisite:	Elementary Linear Algebra C in Math 2200	3	С	
MATH 2200	Calculus I	Q	4	С	PHYS 1210	Engr Physics I	4	С	
Prerequisite:	C in Math 1405 or 1450, MPE 5, Math	ACT 27,			Prerequisite:	Concurrent in Math 2205			
ES 1060 Prerequisite:	Intro to Eng Problem Concurrent MATH 2200		3	C					
	Total		17			Total	14		
					ORE YEAF				
EE/ES > 2000	Any ES, EE, BE course (2000 or hig or COSC 3011 or COSC 3750	;her)	3	D	EE 2220 Prerequisite:	<b>Circuits and Signals</b> <i>C in ES 2210</i>	4	С	
ES 2210	Electric Circuit Analysis		3	С	EE 2390	Digital Systems Design	4	С	
Prerequisite:	Concurrent in MATH 2205				Prerequisite:	C in MATH 2205 and ES 1060 (or COSC			30)
MATH 2210	Calculus III		4	С	MATH 2310	Applied Differential Eqns I	3	С	
Prerequisite: PHYS 1220	C in Math 2205 Engr Physics II		4	С	Prerequisite:	C in MATH 2205 Math/Science Elective	3	D	
Prerequisite:	Concurrent in MATH 2210		4	C		Math/Science Elective	3	D	
i rerequisite.	USP: Human Culture	Н	3	D		USP: US & Wyo Const. V	3	D	
	Total		17			Total	17		
				JUNIO	R YEAR				
EE 3150	Electromagnetics		3	С	EE 3331	Electronics II	3	D	
<b>EE 3150</b> Prerequisite:	Electromagnetics C in ES 2210, MATH 2210, and co	ncurrent	-	С		Electronics II C in EE 2220 and either EE 3310 or EE 3311	3	D	I
		ncurrent	-	С	EE 3331		3	D D	
Prerequisite: <mark>EE 3220</mark> Prerequisite:	C in ES 2210, MATH 2210, and co Signals and Systems C in EE 2220	ncurrent	in PHYS 3	C 1220 C	EE 3331 Prerequisite: EE 3332 Prerequisite:	C in EE 2220 and either EE 3310 or EE 3311 Electronics II Laboratory Concurrent in EE 3331 (or completed) and 0	1 C in EE 3	<b>D</b> 3312	
Prerequisite: EE 3220 Prerequisite: EE 3311	C in ES 2210, MATH 2210, and co Signals and Systems C in EE 2220 Electronics I		in PHYS 3 3	C 1220 C C	EE 3331 Prerequisite: EE 3332 Prerequisite: EE 4075	C in EE 2220 and either EE 3310 or EE 3311 Electronics II Laboratory Concurrent in EE 3331 (or completed) and C C++ with Num Meth for	1 C in EE 3 4	<b>D</b> 3312 <b>D</b>	
Prerequisite: EE 3220 Prerequisite: EE 3311 Prerequisite:	C in ES 2210, MATH 2210, and co Signals and Systems C in EE 2220 Electronics I Concurrent in EE 2220 and C in PH		in PHYS 3 or C in	C 1220 C C EE 3150	EE 3331 Prerequisite: EE 3332 Prerequisite: EE 4075 Prerequisite:	C in EE 2220 and either EE 3310 or EE 3311 Electronics II Laboratory Concurrent in EE 3331 (or completed) and 0 C++ with Num Meth for C in MATH 2205, ES 1060 and either MATH 225	1 C in EE 3 4 O or MAT	<b>D</b> 3312 <b>D</b> H 2310	
Prerequisite: EE 3220 Prerequisite: EE 3311 Prerequisite: EE 3312	C in ES 2210, MATH 2210, and co Signals and Systems C in EE 2220 Electronics I Concurrent in EE 2220 and C in PH Electronics I Laboratory	YS 1220	in PHYS 3 3	C 1220 C C	EE 3331 Prerequisite: EE 3332 Prerequisite: EE 4075 Prerequisite: EE 4220	C in EE 2220 and either EE 3310 or EE 3311 Electronics II Laboratory Concurrent in EE 3331 (or completed) and ( C++ with Num Meth for C in MATH 2205, ES 1060 and either MATH 225 Froomstere Signus and Systems	1 C in EE 3 4 O or MATI 3	<b>D</b> 3312 <b>D</b>	
Prerequisite: EE 3220 Prerequisite: EE 3311 Prerequisite: EE 3312 Prerequisite:	C in ES 2210, MATH 2210, and co Signals and Systems C in EE 2220 Electronics I Concurrent in EE 2220 and C in PH Electronics I Laboratory Concurrent in EE 3311 (or completed	YS 1220	in PHYS 3 or C in 1	C 1220 C EE 3150 C	EE 3331 Prerequisite: EE 3332 Prerequisite: EE 4075 Prerequisite: EE 4220 Prerequisite:	C in EE 2220 and either EE 3310 or EE 3311 Electronics II Laboratory Concurrent in EE 3331 (or completed) and C C++ with Num Meth for C in MATH 2205, ES 1060 and either MATH 225 C in MATH 2210 and concurrent in EE 32.	1 C in EE 3 4 O or MAT 3 20	D 3312 D H 2310 C	
Prerequisite: EE 3220 Prerequisite: EE 3311 Prerequisite: EE 3312 Prerequisite: EE 3510	C in ES 2210, MATH 2210, and co Signals and Systems C in EE 2220 Electronics I Concurrent in EE 2220 and C in PH Electronics I Laboratory Concurrent in EE 3311 (or completed Elec Machines & Power Sys	YS 1220	in PHYS 3 0 or C in	C 1220 C C EE 3150	EE 3331 Prerequisite: EE 3332 Prerequisite: EE 4075 Prerequisite: EE 4220 Prerequisite: EE 4390	C in EE 2220 and either EE 3310 or EE 3311 Electronics II Laboratory Concurrent in EE 3331 (or completed) and ( C++ with Num Meth for C in MATH 2205, ES 100 and either MATH 225 C in MATH 2210 and concurrent in EE 32 Microprocessors	1 C in EE 3 4 O or MATI 3	<b>D</b> 3312 <b>D</b> H 2310	
Prerequisite: EE 3220 Prerequisite: EE 3311 Prerequisite: EE 3312 Prerequisite: EE 3510	C in ES 2210, MATH 2210, and co Signals and Systems C in EE 2220 Electronics I Concurrent in EE 2220 and C in PH Electronics I Laboratory Concurrent in EE 3311 (or completed Elec Machines & Power Sys C in ES 2210	IYS 1220 d)	in PHYS 3 0 or C in 1 4	C 1220 C EE 3150 C D	EE 3331 Prerequisite: EE 3332 Prerequisite: EE 4075 Prerequisite: EE 4220 Prerequisite: EE 4390 Prerequisite:	C in EE 2220 and either EE 3310 or EE 3311 Electronics II Laboratory Concurrent in EE 3331 (or completed) and the C++ with Num Meth for C in MATH 2205, ES 1060 and either MATH 225 C in MATH 2210 and concurrent in EE 32. Microprocessors C in EE 2390	1 C in EE 3 4 0 or MAT 3 20 3	D 3312 D H 2310 C D	
Prerequisite: EE 3220 Prerequisite: EE 3311 Prerequisite: EE 3312 Prerequisite: EE 3510 Prerequisite:	C in ES 2210, MATH 2210, and co Signals and Systems C in EE 2220 Electronics I Concurrent in EE 2220 and C in PH Electronics I Laboratory Concurrent in EE 3311 (or completed Elec Machines & Power Sys C in ES 2210 USP: Communications II	YS 1220	in PHYS 3 or C in 1	C 1220 C EE 3150 C	EE 3331 Prerequisite: EE 3332 Prerequisite: EE 4075 Prerequisite: EE 4220 Prerequisite: EE 4390 Prerequisite: EE 4620	C in EE 2220 and either EE 3310 or EE 3311 Electronics II Laboratory Concurrent in EE 3331 (or completed) and the C++ with Num Meth for C in MATH 2205, ES 1060 and either MATH 225 C in MATH 2210 and concurrent in EE 32. Microprocessors C in EE 2390 Automatic Control Systems	1 C in EE 3 4 O or MAT 3 20	D 3312 D H 2310 C	
Prerequisite: EE 3220 Prerequisite: EE 3311 Prerequisite: EE 3312 Prerequisite: EE 3510	C in ES 2210, MATH 2210, and co Signals and Systems C in EE 2220 Electronics I Concurrent in EE 2220 and C in PH Electronics I Laboratory Concurrent in EE 3311 (or completed Elec Machines & Power Sys C in ES 2210	IYS 1220 d)	in PHYS 3 0 or C in 1 4	C 1220 C EE 3150 C D	EE 3331 Prerequisite: EE 3332 Prerequisite: EE 4075 Prerequisite: EE 4220 Prerequisite: EE 4390 Prerequisite:	C in EE 2220 and either EE 3310 or EE 3311 Electronics II Laboratory Concurrent in EE 3331 (or completed) and the C++ with Num Meth for C in MATH 2205, ES 1060 and either MATH 225 C in MATH 2210 and concurrent in EE 32. Microprocessors C in EE 2390	1 C in EE 3 4 0 or MAT 3 20 3	D 3312 D H 2310 C D	
Prerequisite: EE 3220 Prerequisite: EE 3311 Prerequisite: EE 3312 Prerequisite: EE 3510 Prerequisite:	C in ES 2210, MATH 2210, and co Signals and Systems C in EE 2220 Electronics I Concurrent in EE 2220 and C in PH Electronics I Laboratory Concurrent in EE 3311 (or completed Elec Machines & Power Sys C in ES 2210 USP: Communications II C in Cl	IYS 1220 d)	in PHYS 3 or C in 1 4 3	C 1220 C C EE 3150 C D C	EE 3331 Prerequisite: EE 3332 Prerequisite: EE 4075 Prerequisite: EE 4220 Prerequisite: EE 4390 Prerequisite: EE 4620 Prerequisite:	C in EE 2220 and either EE 3310 or EE 3311 Electronics II Laboratory Concurrent in EE 3331 (or completed) and the C++ with Num Meth for C in MATH 2205, ES 1060 and either MATH 225 C in MATH 2210 and concurrent in EE 32. Microprocessors C in EE 2390 Automatic Control Systems C in EE 2220	1 C in EE 3 4 0 or MAT 3 20 3 3	D 3312 D H 2310 C D	
Prerequisite: EE 3220 Prerequisite: EE 3311 Prerequisite: EE 3312 Prerequisite: EE 3510 Prerequisite:	C in ES 2210, MATH 2210, and co Signals and Systems C in EE 2220 Electronics I Concurrent in EE 2220 and C in PH Electronics I Laboratory Concurrent in EE 3311 (or completed Elec Machines & Power Sys C in ES 2210 USP: Communications II C in Cl Total	IYS 1220 d)	in PHYS 3 or C in 1 4 3	C 1220 C C EE 3150 C D C	EE 3331 Prerequisite: EE 3332 Prerequisite: EE 4075 Prerequisite: EE 4220 Prerequisite: EE 4390 Prerequisite: EE 4620	C in EE 2220 and either EE 3310 or EE 3311 Electronics II Laboratory Concurrent in EE 3331 (or completed) and t C++ with Num Meth for C in MATH 2205, ES 1060 and either MATH 225 LOGADHISTIC Signals and Sustaine C in MATH 2210 and concurrent in EE 32. Microprocessors C in EE 2390 Automatic Control Systems C in EE 2220 Total	1 C in EE 3 4 0 or MAT 3 20 3 3	D 3312 D H 2310 C D	
Prerequisite: EE 3220 Prerequisite: EE 3311 Prerequisite: EE 3312 Prerequisite: EE 3510 Prerequisite: Prerequisite:	C in ES 2210, MATH 2210, and co Signals and Systems C in EE 2220 Electronics I Concurrent in EE 2220 and C in PH Electronics I Laboratory Concurrent in EE 3311 (or completed Elec Machines & Power Sys C in ES 2210 USP: Communications II C in Cl	IYS 1220 d)	in PHYS 3 3 0 or C in 1 4 3 17	C 1220 C EE 3150 C D C SENIO	EE 3331 Prerequisite: EE 3332 Prerequisite: EE 4075 Prerequisite: EE 4220 Prerequisite: EE 4390 Prerequisite: EE 4620 Prerequisite: EE 4620 Prerequisite:	C in EE 2220 and either EE 3310 or EE 3311 Electronics II Laboratory Concurrent in EE 3331 (or completed) and t C++ with Num Meth for C in MATH 2205, ES 1060 and either MATH 225 C in MATH 2210 and concurrent in EE 32. Microprocessors C in EE 2390 Automatic Control Systems C in EE 2220 Total	1 C in EE 3 4 0 or MAT 3 20 3 3 17	D 33312 D 44 2310 C D D	
Prerequisite: EE 3220 Prerequisite: EE 3311 Prerequisite: EE 3312 Prerequisite: EE 3510 Prerequisite: Prerequisite: Prerequisite:	C in ES 2210, MATH 2210, and co Signals and Systems C in EE 2220 Electronics I Concurrent in EE 2220 and C in PH Electronics I Laboratory Concurrent in EE 3311 (or completed Elec Machines & Power Sys C in ES 2210 USP: Communications II C in Cl Total Communication Theory C in EE 3220 and EE 4220 Senior Design I	(YS 1220 d) C2	in PHYS 3 or C in 1 4 3 17 3 2	C 1220 C EE 3150 C D C SENIO	EE 3331 Prerequisite: EE 3332 Prerequisite: EE 4075 Prerequisite: EE 4220 Prerequisite: EE 4390 Prerequisite: EE 4620 Prerequisite: EE 4620 Prerequisite: EE 4830	C in EE 2220 and either EE 3310 or EE 3311 Electronics II Laboratory Concurrent in EE 3331 (or completed) and to C++ with Num Meth for C in MATH 2205, ES 1060 and either MATH 225 C in MATH 2210 and concurrent in EE 32. Microprocessors C in EE 2390 Automatic Control Systems C in EE 2220 Total Senior Design II C3	1 C in EE 3 4 0 or MAT 3 20 3 3 17	D 33312 D 44 2310 C D D	
Prerequisite: EE 3220 Prerequisite: EE 3311 Prerequisite: EE 3312 Prerequisite: EE 3510 Prerequisite: Prerequisite: EE 4440 Prerequisite:	C in ES 2210, MATH 2210, and co Signals and Systems C in EE 2220 Electronics I Concurrent in EE 2220 and C in PH Electronics I Laboratory Concurrent in EE 3311 (or completed Elec Machines & Power Sys C in ES 2210 USP: Communications II C in C1 Total Communication Theory C in EE 3220 and EE 4220	(YS 1220 d) C2	in PHYS 3 or C in 1 4 3 17 3 2	C 1220 C EE 3150 C D C SENIO D	EE 3331 Prerequisite: EE 3332 Prerequisite: EE 4075 Prerequisite: EE 4220 Prerequisite: EE 4390 Prerequisite: EE 4620 Prerequisite: EE 4620 Prerequisite: EE 4830	C in EE 2220 and either EE 3310 or EE 3311  Electronics II Laboratory Concurrent in EE 3331 (or completed) and t C++ with Num Meth for C in MATH 2205, ES 1060 and either MATH 225 C in MATH 2210 and concurrent in EE 32. Microprocessors C in EE 2390 Automatic Control Systems C in EE 2220 Total Senior Design II C3 C in EE 4820 concurrent in design courses	1 C in EE 3 4 0 or MAT 3 20 3 3 17 2	D 33312 D 44 2310 C D D D	
Prerequisite: EE 3220 Prerequisite: EE 3311 Prerequisite: EE 3312 Prerequisite: EE 3510 Prerequisite: Prerequisite: EE 4440 Prerequisite: EE 4820	C in ES 2210, MATH 2210, and co Signals and Systems C in EE 2220 Electronics I Concurrent in EE 2220 and C in PH Electronics I Laboratory Concurrent in EE 3311 (or completed Elec Machines & Power Sys C in ES 2210 USP: Communications II C in Cl Total Communication Theory C in EE 3220 and EE 4220 Senior Design I	(YS 1220 d) C2	in PHYS 3 or C in 1 4 3 17 3 2 t in EE	C 1220 C EE 3150 C D C SENIO D C C	EE 3331 Prerequisite: EE 3332 Prerequisite: EE 4075 Prerequisite: EE 4220 Prerequisite: EE 4390 Prerequisite: EE 4620 Prerequisite: EE 4620 Prerequisite: EE 4830	C in EE 2220 and either EE 3310 or EE 3311  Electronics II Laboratory Concurrent in EE 3331 (or completed) and t C++ with Num Meth for C in MATH 2205, ES 1060 and either MATH 225 C in MATH 2210 and concurrent in EE 32. Microprocessors C in EE 2390 Automatic Control Systems C in EE 2220 Total Senior Design II C3 C in EE 4820 concurrent in design courses	1 C in EE 3 4 0 or MAT 3 20 3 3 17 2	D 33312 D 44 2310 C D D D	
Prerequisite: EE 3220 Prerequisite: EE 3311 Prerequisite: EE 3312 Prerequisite: EE 3510 Prerequisite: Prerequisite: EE 4440 Prerequisite: EE 4820	C in ES 2210, MATH 2210, and co Signals and Systems C in EE 2220 Electronics I Concurrent in EE 2220 and C in PH Electronics I Laboratory Concurrent in EE 3311 (or completed Elec Machines & Power Sys C in ES 2210 USP: Communications II C in C1 Total Communication Theory C in EE 3220 and EE 4220 Senior Design I C in EE 2220, EE 2390, and C2; C	(YS 1220 d) C2	in PHYS 3 or C in 1 4 3 17 3 2 t in EE	C 1220 C EE 3150 C D C SENIO D C C	EE 3331 Prerequisite: EE 3332 Prerequisite: EE 4075 Prerequisite: EE 4220 Prerequisite: EE 4390 Prerequisite: EE 4620 Prerequisite: EE 4620 Prerequisite: EE 4830	C in EE 2220 and either EE 3310 or EE 3311  Electronics II Laboratory Concurrent in EE 3331 (or completed) and t C++ with Num Meth for C in MATH 2205, ES 1060 and either MATH 225 C in MATH 2210 and concurrent in EE 32. Microprocessors C in EE 2390 Automatic Control Systems C in EE 2220 Total Senior Design II C3 C in EE 4820 concurrent in design courses	1 C in EE 3 4 0 or MAT 3 20 3 3 17 2	D 33312 D 44 2310 C D D D	
Prerequisite: EE 3220 Prerequisite: EE 3311 Prerequisite: EE 3312 Prerequisite: EE 3510 Prerequisite: Prerequisite: EE 4440 Prerequisite: EE 4820	C in ES 2210, MATH 2210, and co Signals and Systems C in EE 2220 Electronics I Concurrent in EE 2220 and C in PH Electronics I Laboratory Concurrent in EE 3311 (or completed Elec Machines & Power Sys C in ES 2210 USP: Communications II C in Cl Total Communication Theory C in EE 3220 and EE 4220 Senior Design I C in EE 2220, EE 2390, and C2; C 3311/3312 and 6 credits of 4000-1	(YS 1220 d) C2	in PHYS 3 or C in 1 4 3 17 3 t in EE BE cours	C 1220 C EE 3150 C D C SENIO D C ves	EE 3331 Prerequisite: EE 3332 Prerequisite: EE 4075 Prerequisite: EE 4220 Prerequisite: EE 4390 Prerequisite: EE 4620 Prerequisite: EE 4620 Prerequisite: EE 4830	C in EE 2220 and either EE 3310 or EE 3311  Electronics II Laboratory Concurrent in EE 3331 (or completed) and t C++ with Num Meth for C in MATH 2205, ES 1060 and either MATH 225 Concurrent in Z210 and concurrent in EE 32  Microprocessors C in EE 2390  Automatic Control Systems C in EE 2220  Total  Senior Design II C3 C in EE 4820 concurrent in design courses EE or BE Elective (>4000)	1 C in EE 3 4 0 or MAT 3 20 3 3 17 2 2 3	D 33312 D 423310 C D D C D	
Prerequisite: EE 3220 Prerequisite: EE 3311 Prerequisite: EE 3312 Prerequisite: EE 3510 Prerequisite: Prerequisite: EE 4440 Prerequisite: EE 4820	C in ES 2210, MATH 2210, and co Signals and Systems C in EE 2220 Electronics I Concurrent in EE 2220 and C in PH Electronics I Laboratory Concurrent in EE 3311 (or completed Elec Machines & Power Sys C in ES 2210 USP: Communications II C in Cl Total Communication Theory C in EE 3220 and EE 4220 Senior Design I C in EE 2220, EE 2390, and C2; C 3311/3312 and 6 credits of 4000-1 Technical Elective	(YS 1220 d) C2	in PHYS 3 or C in 1 4 3 17 3 2 t in EE BE cours 4	C 1220 C EE 3150 C D C SENIO D C ses D	EE 3331 Prerequisite: EE 3332 Prerequisite: EE 4075 Prerequisite: EE 4220 Prerequisite: EE 4390 Prerequisite: EE 4620 Prerequisite: EE 4620 Prerequisite: EE 4830	C in EE 2220 and either EE 3310 or EE 3311  Electronics II Laboratory Concurrent in EE 3331 (or completed) and t C++ with Num Meth for C in MATH 2205, ES 1060 and either MATH 225 Concurrent in Z210 and concurrent in EE 32  Microprocessors C in EE 2390 Automatic Control Systems C in EE 2220  Total  Senior Design II C3 C in EE 4820 concurrent in design courses EE or BE Elective (>4000)  EE or BE Elective (>4000)	1 C in EE 3 4 0 or MAT 3 20 3 3 17 2 3 3	D 3312 D 42310 C D D C D D	

• 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 concurently 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.