

### FALL

### SPRING

Course Number	Course Title	USP	CR	Min Grade	Grade	Course Number	Course Title	USP	CR	Min Grade	Grade
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### FRESHMAN YEAR

<b>CHEM 1020</b>	<b>General Chemistry I</b>	PN	4	C		<b>CHEM 2300</b>	<b>Intro Organic Chem</b>		4	C	
<i>Prerequisite: ACT Math 23 or concurrent MATH 1400, 1405 or 1450</i>						<i>Prerequisite: C in CHEM 1020</i>					
	<b>USP: First Year Seminar</b>	FYS	3	C		<b>MATH 2205</b>	<b>Calculus II</b>		4	C	
<i>Prerequisite: C in MATH 2200</i>						<i>EE/ES &gt; 2000 Any ES, EE, BE course (2000 or higher) or COSC 3011 or COSC 3750</i>					
	<b>USP: Communications I</b>	C1	3	C		<b>PHYS 1210</b>	<b>Engr Physics I</b>		4	C	
<i>Prerequisite: C in Math 1405 or 1450, MPE 5, Math ACT 27, Math SAT 640</i>						<i>Prerequisite: Concurrent in Math 2205</i>					
<b>MATH 2200</b>	<b>Calculus I</b>	Q	4	C							
<i>Prerequisite: Concurrent MATH 2200</i>											
<b>ES 1060</b>	<b>Intro to Eng Problem</b>		3	C							
<i>Prerequisite: Concurrent MATH 2200</i>											
<b>Total</b>			<b>17</b>			<b>Total</b>			<b>15</b>		

### SOPHOMORE YEAR

<i>EE/ES &gt; 2000</i>	<i>Any ES, EE, BE course (2000 or higher) or COSC 3011 or COSC 3750</i>		3	D		<b>EE 2220</b>	<b>Circuits and Signals</b>		4	C	
<i>Prerequisite: Concurrent in MATH 2205</i>						<i>Prerequisite: C in ES 2210</i>					
<b>ES 2210</b>	<b>Electric Circuit Analysis</b>		3	C		<b>EE 2390</b>	<b>Digital Systems Design</b>		4	C	
<i>Prerequisite: Concurrent in MATH 2205</i>						<i>Prerequisite: C in MATH 2205 and ES 1060 (or COSC 1010 or COSC 1030)</i>					
<b>MATH 2210</b>	<b>Calculus III</b>		4	C		<b>LIFE 1010</b>	<b>General Biology I</b>	PN	4	C	
<i>Prerequisite: C in Math 2205</i>						<i>Prerequisite: ACT Math 23 or concurrent MATH 1400, 1405 or 1450</i>					
<b>PHYS 1220</b>	<b>Engr Physics II</b>		4	C		<b>MATH 2250</b>	<b>Elementary Linear Algebra</b>		3	C	
<i>Prerequisite: Concurrent in MATH 2210</i>						<i>Prerequisite: C in Math 2200</i>					
	<b>USP: Human Culture</b>	H	3	D		<b>MATH 2310</b>	<b>Applied Differential Eqns I</b>		3	C	
<i>Prerequisite: Concurrent in MATH 2210</i>						<i>Prerequisite: C in MATH 2205</i>					
<b>Total</b>			<b>17</b>			<b>Total</b>			<b>18</b>		

### JUNIOR YEAR

<b>EE 3220</b>	<b>Signals and Systems</b>		3	C		<b>EE 3330</b>	<b>Electronics II</b>		4	D	
<i>Prerequisite: C in EE 2220</i>						<i>Prerequisite: C in EE 2220 and EE 3310</i>					
<b>EE 3310</b>	<b>Electronics I</b>		4	C		<b>EE 4075</b>	<b>C++ with Num Meth for</b>		4	D	
<i>Prerequisite: Concurrent in EE 2220 and C in PHYS 1220 or C in EE 3150</i>						<i>Prerequisite: C in MATH 2205, ES 1060 and either MATH 2250 or MATH 2310</i>					
<b>EE 3510</b>	<b>Electromechanics</b>		4	D		<b>EE 4390</b>	<b>Microprocessors</b>		3	D	
<i>Prerequisite: C in ES 2210</i>						<i>Prerequisite: C in EE 2390</i>					
	<b>USP: Communications II</b>	C2	3	C		<b>MOLB 2021</b>	<b>General Microbiology</b>		4	D	
<i>Prerequisite: C in C1</i>						<i>C in LIFE 1010 and CHEM 1020</i>					
	<b>USP: Human Culture</b>	H	3	D							
<b>Total</b>			<b>17</b>			<b>Total</b>			<b>15</b>		

### SENIOR YEAR

<b>One of:</b>	<b>BE 4810 or EE 4330</b>		3	D		<b>One of:</b>	<b>BE 4820 or EE 4620</b>		3	D	
<i>Prerequisite: Varies</i>						<i>Prerequisite: Varies</i>					
<b>EE 3150</b>	<b>Electromagnetics</b>		3	C		<b>EE 4220</b>	<b>Probabilistic Signals and Systems</b>		3	C	
<i>Prerequisite: C in ES 2210, MATH 2210, and concurrent in PHYS 1220</i>						<i>Prerequisite: C in EE 3220 and MATH 2210</i>					
<b>EE 4820</b>	<b>Senior Design I</b>		2	C		<b>EE 4830</b>	<b>Senior Design II</b>	C3	2	C	
<i>Prerequisite: C in EE 2220, EE 2390, and C2; Concurrent in EE 3310 and 6 credits of 4000-level EE/BE courses</i>						<i>Prerequisite: C in EE 4820 and concurrent in design courses</i>					
	<b>Technical Elective*</b>		3	D		<b>MOLB 3610</b>	<b>Principles of Biochemistry</b>		4	D	
<i>Prerequisite: Varies</i>						<i>Prerequisite: LIFE 1010 and C- in CHEM 2300</i>					
	<b>USP: US &amp; Wyo Const.</b>	V	3	D			<b>BE or EE Elective (&gt;4000)</b>		3	D	
<b>Total</b>			<b>14</b>			<b>Total</b>			<b>15</b>		

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. PHYS 1220 should be taken prior to 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.