



# Chemistry, BS

## 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>		4	C		<b>CHEM 1030</b>	<b>General Chemistry II</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: Communications I</b>	C1	3	C		<b>MATH 2205</b>	<b>Calculus II</b>	Q	4	C	
<i>Prerequisite: Varies</i>						<i>Prerequisite: C in Math 2200</i>					
<b>MATH 2200</b>	<b>Calculus I</b>	Q	4	C		<b>PHYS 1210</b>	<b>Engineering Physics I</b>	PN	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>USP: Human Culture</b>	H	3	D			<b>USP: Human Culture</b>	H	3	D	
<i>Prerequisite: Varies</i>						<i>Prerequisite: Varies</i>					
<b>Total</b>						<b>Total</b>					
14						15					

### SOPHOMORE YEAR

<b>CHEM 2420</b>	<b>Organic Chemistry I</b>		4	C		<b>CHEM 2440</b>	<b>Organic Chemistry II</b>		4	C	
<i>Prerequisite: C in CHEM 1030 or CHEM 1060</i>						<i>Prerequisite: C in CHEM 1030 or CHEM 1060 and CHEM 2420</i>					
<b>MATH 2210</b>	<b>Calculus III</b>		4	C		<b>CHEM 2230</b>	<b>Quantative Analysis</b>		5	C	
<i>Prerequisite: C in MATH 2205</i>						<i>Prerequisite: CHEM 1030, CHEM 1060 or Equivalent</i>					
	<b>Global or General Elective</b>		3	D			<b>USP: US &amp; WY Const.</b>	V	3	D	
<i>Prerequisite: Varies</i>						<i>Prerequisite: C in C1</i>					
<b>PHYS 1220</b>	<b>Engineering Physics II</b>	PN	4	C			<b>USP: Communications II</b>	C2	3	C	
<i>Prerequisite: Concurrent in MATH 2210</i>						<i>Prerequisite: C in C1</i>					
<b>Total</b>						<b>Total</b>					
15						15					

### JUNIOR YEAR

<b>CHEM 4110</b>	<b>Introductory Inorganic Chem</b>		3	C		<b>CHEM 4100</b>	<b>Inorganic Chemistry Lab</b>		2	C	
<i>Prerequisite: C in CHEM 2420 and Physical</i>						<i>Prerequisite: C in CHEM 2440 and CHEM 4110 or concurrent enrollment</i>					
	<b>General Elective</b>		4	D			<b>Diversity or General Elective</b>		3	D	
<i>Prerequisite: Varies</i>						<i>Prerequisite: Varies</i>					
	<b>General Elective</b>		3	D			<b>General Elective</b>		3	D	
<i>Prerequisite: Varies</i>						<i>Prerequisite: Varies</i>					
	<b>General Elective</b>		3	D			<b>General Elective</b>		4	D	
<i>Prerequisite: Varies</i>						<i>Prerequisite: Varies</i>					
<b>CHEM 4930</b>	<b>Undergrad Research</b>		2	C			<b>Upper Div Elective</b>		3	D	
<i>Prerequisite: Chemistry major and instructor consent</i>						<i>Prerequisite: Varies</i>					
<b>Total</b>						<b>Total</b>					
15						15					

### SENIOR YEAR

<b>CHEM 4000</b>	<b>Career Skills</b>		3	C		<b>CHEM 4508</b>	<b>Physical Chemistry II</b>		3	C	
<i>Prerequisite: 6 hours of CHEM classes</i>						<i>Prerequisite: CHEM 4507</i>					
<b>CHEM 4507</b>	<b>Physical Chemistry I</b>		3	C		<b>CHEM 4530</b>	<b>Physical Chemistry Lab II</b>		1	C	
<i>Prerequisite: 1 year gen. CHEM, multivariable CALC, 1 year PHYS</i>						<i>Prerequisite: CHEM 4508 or concurrent enrollment</i>					
<b>CHEM 4525</b>	<b>Physical Chemistry Lab I</b>		1	C			<b>Upper Div Elective</b>		3	D	
<i>Prerequisite: CHEM 4507 or concurrent enrollment</i>						<i>Prerequisite: Varies</i>					
	<b>Upper Div CHEM Elec</b>		3	C			<b>Upper Div Elective</b>		3	D	
<i>Prerequisite: Varies</i>						<i>Prerequisite: Varies</i>					
	<b>USP: Communications III</b>	C3	3	C			<b>Upper Div Elective</b>		3	D	
<i>Prerequisite: C in C2</i>						<i>Prerequisite: Varies</i>					
	<b>Upper Div Elective</b>		3	D			<b>Upper Div Elective</b>		2	D	
<i>Prerequisite: Varies</i>						<i>Prerequisite: Varies</i>					
<b>Total</b>						<b>Total</b>					
16						15					

Fall only or spring only course

**Total Program Credits: 120**

Students must have a minimum cumulative GPA of 2.0 to graduate

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

No more than 60 hours in the major subject may be used toward the 120 credits required (128 for professional programs).

All hours in the major subject must be completed with a grade of C or better. Courses must be taken for a letter grade unless offered S/U only.

H and PN courses must be taken outside the major subject, but can be cross-listed with the major.

Students with specific additional interests (pre-med or pre-professional) may wish to move V/H/C2 courses to take necessary courses