

University of Wyoming Sample Four-Year Degree Plan  
Catalog Year: 2019-20

## Chemistry, BA



This sample degree plan is a guide, to be used for planning in consultation with your academic advisor. Actual course sequence may vary by student. A ▲ symbol identifies courses that must be taken and passed during the suggested semester in order for a student to stay on track toward completing the degree program within four years.

Sequence	Course Prefix	Course Number	Course Title	Credit Hours	Min Grade	Notes
			USP First-Year Seminar	3	C	FY
▲	CHEM	1020	General Chemistry I <sup>1</sup>	4	C	Can substitute CHEM 10501
	ENGL	1010	College Composition and Rhetoric	3	C	C1
	MATH	2200	Calculus I <sup>1</sup>	4	C	Q
<b>Credit hours subtotal:</b>				<b>14</b>		

### Freshman Spring Semester

			USP Human Culture	3		H
▲	CHEM	1030	General Chemistry II	4	C	Can substitute CHEM 1060
	MATH	2205	Calculus II	4	C	
	POLS	1000	American and Wyoming Government	3		V
<b>Credit hours subtotal:</b>				<b>14</b>		

### Sophomore Fall Semester

			USP Communication <sup>2</sup>	3	C	C2
			USP Human Culture	3		H
	CHEM	2420	Organic Chemistry I	4	C	
	PHYS	1110	General Physics I	4	C	PN; can substitute PHYS 1210
			Elective	3		
<b>Credit hours subtotal:</b>				<b>17</b>		

### Sophomore Spring Semester

			A&S Core Global Awareness	3		ASG
	CHEM	2440	Organic Chemistry II	4	C	
	PHYS	1120	General Physics II	4	C	PN; can substitute PHYS 1220
			Elective	3		
<b>Credit hours subtotal:</b>				<b>14</b>		

This sample degree plan is a guide for course work in the major. • Course sequencing may need to be altered if ACT, SAT or Math Placement scores require a student to take pre-college courses before taking required math or English courses. • Not all courses are offered every semester and some electives may have prerequisites. Students should review course descriptions in the University Catalog and consult with their academic advisor to plan accordingly.

#### University of Wyoming requirements:

Students must have a minimum cumulative GPA of 2.0 to graduate. • Students must complete 42 hours of upper division (3000-level or above) coursework, 30 of which must be from the University of Wyoming. • Courses must be taken for a letter grade unless offered only for S/U. • University Studies Program (USP) Human Culture (H) and Physical & Natural World (PN) courses must be taken outside of the major subject, but can be cross-listed with the major.

#### College of Arts and Sciences requirements:

Students must take two "core" courses in addition to UW's University Studies Program requirements: Diversity in the United States (ASD) and Global Awareness (ASG). • No more than 60 hours in the major subject may be used toward the 120 credit hours required for graduation. • At least 30 hours in the major subject must be completed with a grade of C or better (the major may require more).

Notes continued on next page(s).

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### Junior Fall Semester

			A&S Core Diversity in the US	3	ASD	
	CHEM	3550	Physical Chemistry for the Life Sciences <sup>2</sup>	3	C	Offered only in fall of odd calendar years
			Upper Division Chemistry Elective <sup>4</sup>	3	C	
			Electives	6		
<b>Credit hours subtotal:</b>				<b>15</b>		

### Junior Spring Semester

	CHEM	2230	Quantitative Analysis	4	C	Offered spring only
			Upper Division Electives	6		
			Electives	6		
<b>Credit hours subtotal:</b>				<b>16</b>		

### Senior Fall Semester

			USP Communication <sup>3</sup>	3	C	C3; recommend CHEM 4010, ENGL 4010, MICR 4321
	CHEM	4110	Introductory Inorganic Chemistry	3	C	Offered fall only
			Upper Division Electives	9		
<b>Credit hours subtotal:</b>				<b>15</b>		

### Senior Spring Semester

	CHEM	4100	Inorganic Chemistry Laboratory <sup>3</sup>	2	C	May be taken in fall
			Upper Division Chemistry Elective <sup>4</sup>	1	C	
			Upper Division Electives	12		
<b>Credit hours subtotal:</b>				<b>15</b>		
<b>TOTAL CREDIT HOURS</b>				<b>120</b>		

#### Chemistry BA Program notes:

The Department of Chemistry offers both BA and BS degree programs. The BA program has a more liberal content with additional electives. It would support careers in business, law, and advanced study in areas needing a strong chemistry background such as toxicology or forensic science. It is also suitable for students in the College of Education who wish to obtain an A&S degree and may be appropriate for some premed tracks. Discussions with a departmental advisor will allow students to choose the most appropriate major for career objectives.

The BA in chemistry requires a minimum of 32 hours of chemistry.

<sup>1</sup> See the "Prerequisite and MPE Cut Score Reference Chart" on the Math Placement website for the most up-to-date math placement equivalencies: <http://www.uwyo.edu/mathstats/math-placement/>.

<sup>2</sup> CHEM 4507 (Physical Chemistry I) is an acceptable substitute for CHEM 3550, but it does have the additional prerequisite of MATH 2210.

<sup>3</sup> CHEM 4100 satisfies the upper division lab credit, but it may be replaced by one (1) of the other acceptable courses; for example, CHEM 4230 (Instrumental Methods of Chemical Analysis) or CHEM 4525 (Physical Chemistry Lab I - offered fall only) if taken in conjunction with

<sup>4</sup> A total of six (6) credits of upper division chemistry electives are required; these must include an upper division lab (see previous note). The one (1) credit indicated in the senior fall semester reflects the choice of CHEM 4100 to satisfy the lab requirement.