

“W” Number: \_\_\_\_\_  
 Student Name: \_\_\_\_\_  
 Advisor Name: \_\_\_\_\_

Catalog: 2021-2022 University of Wyoming Catalog  
 Program: Chemistry, B.A.

## Chemistry, B.A.

The department offers both, B.A. and B.S. degree programs. The B.A. degree includes a minimum of 32 hours of chemistry. The Plan 1 B.S. degree requires at least 38 hours. The Plan 2 B.S. requires 46 hours of chemistry courses. Since the chemistry required in the first two years of all programs is the same, students interested in pursuing a chemistry major can elect any program initially. Discussions with a departmental adviser will allow students to choose the most appropriate major for their career objectives. In general, students planning graduate work in chemistry should elect one of the B.S. programs. The B.A. 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.

A B.A. is suitable for students in the College of Education who wish to obtain an A&S degree, and may also be appropriate for some premedical tracks. The Plan 2 (CACS) program is designed to meet standards set by the American Chemical Society (ACS). A student who completes the Plan 2 B.S. program will be certified by the Department of Chemistry to the ACS as having met the specific ACS requirements for undergraduate professional training in chemistry. Students must obtain a grade of C- or higher in each of the chemistry, physics or math courses specifically required for their degree.

### Plan 1

(32 hours of chemistry)

### Course Requirements

Course Name	Credits:	Term Taken	Grade	Gen Ed
MATH2200 - Calculus I	Credits: 4			
MATH2205 - Calculus II	Credits: 4			
<ul style="list-style-type: none"> <li>• <b>Additional USP requirements</b> Credits: 21</li> <li>• <b>Additional A&amp;S core requirements</b> Credits: 6</li> <li>• <b>Electives</b> Credits: 45</li> </ul>				

### Basic Chemistry: 26 Hours

Course Name	Credits:	Term Taken	Grade	Gen Ed
CHEM1050 - Advanced General Chemistry I <b>AND</b>	Credits: 4			
CHEM1060 - Advanced General Chemistry II	Credits: 4			
<b>OR</b>				
CHEM1020 - General Chemistry I <b>AND</b>	Credits: 4			
CHEM1030 - General Chemistry II	Credits: 4			
CHEM2230 - Quantitative Analysis	Credits: 5			
CHEM2420 - Organic Chemistry I	Credits: 4			
CHEM2440 - Organic Chemistry II	Credits: 4			
CHEM3550 - Physical Chemistry for the Life Sciences	Credits: 3			
<b>OR</b>				
CHEM4507 - Physical Chemistry I	Credits: 3			
CHEM4110 - Introductory Inorganic Chemistry	Credits: 3			

### Additional Upper-Level Chemistry: 6 Hours

(Including one of the following)

Course Name	Credits:	Term Taken	Grade	Gen Ed
CHEM4100 - Inorganic Chemistry Laboratory	Credits: 2			
CHEM4230 - Instrumental Methods of Chemical Analysis	Credits: 5			
CHEM4530 - Physical Chemistry Laboratory II	Credits: 1			

### PHYS: 8 Hours

Course Name	Credits:	Term Taken	Grade	Gen Ed
PHYS1310 - College Physics I <b>AND</b>	Credits: 4			
PHYS1320 - College Physics II	Credits: 4			
<b>OR</b>				
PHYS1110 - General Physics I <b>AND</b>	Credits: 4			

PHYS1120 - General Physics II	Credits: 4			
<b>OR</b>				
PHYS1210 - Engineering Physics I AND	Credits: 4			
PHYS1220 - Engineering Physics II	Credits: 4			
<b>Minimum Total: 120 Hours</b>				
<b>Suggested Program for a Bachelor's Degree in Chemistry</b>				
<i>(Freshman and Sophomore Years)</i>				
<b>Suggested Course Sequence</b>				
<b>Freshman Year: Fall</b>				
<b>Course Name</b>	<b>Credits:</b>	<b>Term Taken</b>	<b>Grade</b>	<b>Gen Ed</b>
CHEM1050 - Advanced General Chemistry I	Credits: 4			
<b>OR</b>				
CHEM1020 - General Chemistry I	Credits: 4			
ENGL1010 - College Composition and Rhetoric	Credits: 3			
MATH2200 - Calculus I	Credits: 4			
• A&S Core or University Studies Requirements Credits: 3-4				
<b>Total: 14-15 Hours</b>				
<b>Freshman Year: Spring</b>				
<b>Course Name</b>	<b>Credits:</b>	<b>Term Taken</b>	<b>Grade</b>	<b>Gen Ed</b>
CHEM1060 - Advanced General Chemistry II	Credits: 4			
<b>OR</b>				
CHEM1030 - General Chemistry II	Credits: 4			
MATH2205 - Calculus II	Credits: 4			
• A&S core or University Studies requirements Credits: 6-8				
<b>Total: 14-16 Hours</b>				
<b>Sophomore Year: Fall</b>				
<b>Course Name</b>	<b>Credits:</b>	<b>Term Taken</b>	<b>Grade</b>	<b>Gen Ed</b>
CHEM2420 - Organic Chemistry I	Credits: 4			
PHYS1310 - College Physics I	Credits: 4			
<b>OR</b>				
PHYS1210 - Engineering Physics I	Credits: 4			
<b>OR</b>				
PHYS1110 - General Physics I	Credits: 4			
• A&S core or University Studies requirements Credits: 3-4				
<b>Total: 15-16 Hours</b>				
<b>Sophomore Year: Spring</b>				
<b>Course Name</b>	<b>Credits:</b>	<b>Term Taken</b>	<b>Grade</b>	<b>Gen Ed</b>
CHEM2440 - Organic Chemistry II	Credits: 4			
CHEM2230 - Quantitative Analysis	Credits: 5			
PHYS1320 - College Physics II	Credits: 4			
<b>OR</b>				
PHYS1220 - Engineering Physics II	Credits: 4			
<b>OR</b>				
PHYS1120 - General Physics II	Credits: 4			

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| • A&S core or University Studies requirements Credits: 3-4 |  |  |  |  |
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**Total: 15-16 Hours**

**Notes:**