

Chemistry, BS - plan 2 (professional, CACS)



University of Wyoming

Freshman Fall Semester

	Hrs	Min	Grade	Notes
USP First Year Seminar	3		C	FY
CHEM 1020 General Chemistry I	4		C	Can substitute CHEM 1050. Offered fall only.
MATH 2200 Calculus I	4		C	Q, minimum Math Placement Exam score required
ENGL 1010 College Composition and Rhetoric	3		C	C1
Electives ☆	3		C	
Credit hours subtotal:				17

Freshman Spring Semester

	Hrs	Min	Grade	Notes
CHEM 1030 General Chemistry II	4		C	Can substitute CHEM 1060. Offered spring only.
MATH 2205 Calculus II	4		C	
POLS 1000 American and Wyoming Government	3			V *
USP Human Culture	3			H *
Electives ☆	3		C	
Credit hours subtotal:				17

Sophomore Fall Semester

	Hrs	Min	Grade	Notes
CHEM 2420 Organic Chemistry I	4		C	
MATH 2210 Calculus III	4		C	
USP Communication 2	3		C	C2 *
Electives ☆	6		C	
Credit hours subtotal:				17

Sophomore Spring Semester

	Hrs	Min	Grade	Notes
CHEM 2440 Organic Chemistry II	4		C	
CHEM 2230 Quantitative Analysis	5		C	Offered spring only.
CHEM 4515 Applied Math for Physical Chemistry †	3		C	Offered spring only.
Electives ☆	6		C	
Credit hours subtotal:				18

Notes:

Students must have a minimum cumulative GPA of 2.0 to graduate.

Students must complete 48 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 for 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 (e.g. pre-med or another pre-professional program) may wish to move their V/H/C2 courses to alternate semesters so as to take the necessary required courses (e.g. LIFE 1010, MOLB 3000, etc.).

☆ The electives can be chosen to complete the 18 directed credits (program supporting courses); any courses taken to fulfill the 18 directed electives require a grade of C or better to count.

† This course satisfies the computer science requirement for the CACS major, although there are other alternatives, namely STAT 2050 and COSC 1010.

This is a guide for coursework in the major; actual course sequence may vary by student. Please refer to online student degree evaluation.

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Junior Fall Semester			Hrs	Min Grade	Notes
CHEM	4100	Inorganic Chemistry Lab	2	C	May be taken in spring; prereq or coreq is 4110.
CHEM	4110	Introductory Inorganic Chemistry	3	C	
CHEM	4400	Biological Chemistry	3	C	Can substitute MOLB 3610 or 4600.
CHEM	4930	Undergraduate Research	1	C	
PHYS	1210	General Physics I	4	C	PN
		USP Human Culture	3		H *
Credit hours subtotal:			16		

Junior Spring Semester			Hrs	Min Grade	Notes
		Upper Division Chemistry Elective	3	C	
CHEM	4930	Undergraduate Research	1	C	
PHYS	1220	General Physics II	4	C	PN
		A&S Core Global	3		ASG
		Upper Division Electives	6		
		Elective	3		
Credit hours subtotal:			17		

Senior Fall Semester			Hrs	Min Grade	Notes
CHEM	4000	Career Skills †	3	S	Offered fall only and as S/U.
CHEM	4230	Instrumental Methods of Chemical Analysis	5	C	Offered fall only.
CHEM	4507	Physical Chemistry I	3	C	
CHEM	4525	Physical Chemistry Lab I	1	C	Prereq or coreq is CHEM 4507.
CHEM	4930	Undergraduate Research	1	C	
		USP Communication 3	3	C	C3, CHEM 4010 recommended but not required
		A&S Core Diversity in US	3		ASD
Credit hours subtotal:			19		

Senior Spring Semester			Hrs	Min Grade	Notes
CHEM	4508	Physical Chemistry II	3	C	
CHEM	4530	Physical Chemistry Lab II	1	C	Prereq or coreq is CHEM 4508.
		Upper Division Electives	9		
Credit hours subtotal:			13		

TOTAL CREDIT HOURS: 130

Notes:

† Students taking CHEM 4010 (C3) are not required to take CHEM 4000

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