



Chemistry, BS (CACS)

FALL

SPRING

Course Number	Course Title	USP	CR	Min Grade	Grade	Course Number	Course Title	USP	CR	Min Grade	Grade
FRESHMAN YEAR											
CHEM 1020	General Chemistry I		4	C		CHEM 1030	General Chemistry II		4	C	
Prerequisite: ACT MATH 23 or concurrent MATH 1400/1405 or 1450						Prerequisite: C in CHEM 1020					
	USP: Communications I	C1	3	C		MATH 2205	Calculus II	Q	4	C	
Prerequisite: C in Math 1405 or 1450, MPE 5, Math ACT 27, Math SAT 640						Prerequisite: C in Math 2200					
MATH 2200	Calculus I	Q	4	C		PHYS 1210	Engineering Physics I	PN	4	C	
Prerequisite: C in Math 1405 or 1450, MPE 5, Math ACT 27, Math SAT 640						Prerequisite: Concurrent in Math 2205					
	USP: Human Culture	H	3	D		One of:	COSC 1010 or STAT 2050		3	C	
Prerequisite: Varies						Prerequisite: Varies					
Total						Total					
14						15					

SOPHOMORE YEAR

CHEM 2420	Organic Chemistry I		4	C		CHEM 2440	Organic Chemistry II		4	C	
Prerequisite: C in CHEM 1030 or CHEM 1060						Prerequisite: C in CHEM 1030 or CHEM 1060 and CHEM 2420					
MATH 2210	Calculus III		4	C		CHEM 2230	Quantative Analysis		5	C	
Prerequisite: C in MATH 2205						Prerequisite: CHEM 1030, CHEM 1060 or Equivalent					
	USP: Human Culture	H	3	D			USP: US & WY Const.	V	3	D	
Prerequisite: Varies											
PHYS 1220	Engineering Physics II	PN	4	C			USP: Communications II	C2	3	C	
Prerequisite: Concurrent in MATH 2210						Prerequisite: C in C1					
Total						Total					
15						15					

JUNIOR YEAR

CHEM 4110	Introductory Inorganic		3	C		CHEM 4100	Inorganic Chemistry Lab		2	C	
Prerequisite: C in CHEM 2420 and Physical						Prerequisite: C in CHEM 2440 and CHEM 4110 or concurrent enrollment					
CHEM 4230	Inst. Methds of Chem Analysis		5	C		CHEM 4930	Undergrad Research		3	C	
Prerequisite: Varies						Prerequisite: Chemistry major and instructor consent					
	Upper Div CHEM Elec		2	C		One of:	CHEM 4400/MOLB 3610/MOLB 4600		3	C	
Prerequisite: Varies						Prerequisite: Varies					
	Global or General Elective		3	D			Diversity or General Elective		3	D	
Prerequisite: Varies						Prerequisite: Varies					
	Program Supporting Course		3	C			Program Supporting Course		3	C	
Prerequisite: Varies						Prerequisite: Varies					
Total						Total					
16						14					

SENIOR YEAR

CHEM 4000	Career Skills		3	C		CHEM 4508	Physical Chemistry II		3	C	
Prerequisite: 6 hours of CHEM classes						Prerequisite: CHEM 4507					
CHEM 4507	Physical Chemistry I		3	C		CHEM 4530	Physical Chemistry Lab II		1	C	
Prerequisite: 1 year gen. CHEM, multivariable CALC, 1 year PHYS						Prerequisite: Chem 4508 or concurrent enrollment					
CHEM 4525	Physical Chemistry Lab I		1	C			General Elective		1	C	
Prerequisite: CHEM 4507 or concurrent enrollment						Prerequisite: Varies					
	Program Supporting Course		3	C			Upper Div Program Supporting		3	C	
Prerequisite: Varies						Prerequisite: Varies					
	USP: Communications III	C3	3	C			Upper Div Program Supporting		3	D	
Prerequisite: C in C2						Prerequisite: Varies					
	Program Supporting Course		3	C			Upper Div Elective		4	D	
Prerequisite: Varies						Prerequisite: Varies					
Total						Total					
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