



College of
Engineering and
Applied Science

Chemistry, BS

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 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			USP: Human Culture	H	3	D	
Prerequisite:	Varies					Prerequisite:	Varies				
Total			14			Total			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				
	General Elective		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			15			Total			15		

JUNIOR YEAR

CHEM 4110	Introductory Inorganic Chem		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				
	General Elective		4	D			General Elective		3	D	
Prerequisite:	Varies					Prerequisite:	Varies				
	General Elective		3	D			General Elective		3	D	
Prerequisite:	Varies					Prerequisite:	Varies				
	General Elective		3	D			General Elective		4	D	
Prerequisite:	Varies					Prerequisite:	Varies				
CHEM 4930	Undergrad Research		2	C			Upper Div Elective		3	D	
Prerequisite:	Chemistry major and instructor consent					Prerequisite:	Varies				
Total			15			Total			15		

SENIOR YEAR

CHEM 4000	Career Skills		3	C		CHEM 4508	Thermodynamics and Kinetics		3	C	
Prerequisite:	6 hours of CHEM classes					Prerequisite:	C in CHEM 1030, PHYS 1220, MATH 2210				
CHEM 4507	Intro to Quantum Mechanics		3	C		CHEM 4530	Physical Chemistry Lab II		1	C	
Prerequisite:	C in CHEM 1030, PHYS 1220, MATH 2210					Prerequisite:	CHEM 4508 or concurrent enrollment				
CHEM 4525	Physical Chemistry Lab I		1	C			Upper Div Elective		3	D	
Prerequisite:	CHEM 4507 or concurrent enrollment					Prerequisite:	Varies				
	Upper Div CHEM Elec		3	C			Upper Div Elective		3	D	
Prerequisite:	Varies					Prerequisite:	Varies				
	USP: Communications III	C3	3	C			Upper Div Elective		3	D	
Prerequisite:	C in C2					Prerequisite:	Varies				
	Upper Div Elective		3	D			Upper Div Elective		2	D	
Prerequisite:	Varies					Prerequisite:	Varies				
Total			16			Total			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

CHEM 4000 offered in Fall semesters in even-numbered years.