University of Wyoming, College of Arts & Sciences
Requirements Checklist – Chemistry B.S. Plan 2 CACS

For students matriculating fall 2003 and after.

Student:_____ Advisor:_____ Initial Date of Program:_____

University Studies Program:

(P)	Physical Activity & Health	1 course, 1 credit _____
(I)	Intellectual Community	1 course, 1-3 credits _____
(V)	U.S. & Wyoming Constitutions	1 course, 3 credits _____
(WA)	Writing 1	1 course, 3 credits _____
(QA)	Quantitative Reasoning 1	1 course, 3 credits _____
(QB)	Quantitative Reasoning 2	1 course, 3 credits _____
(O)	Oral Communication	1 course, 3 credits _____

Cultural Context – 9 hours total C, CH, CS, CA; at least 3 courses from 3 of 4 different categories

Arts (CA)	1 course, 3 credits _____
Humanities (CH)	1 course, 3 credits _____
Social science (CS)	1 course, 3 credits _____
Integrated Cultural Context (C)	1 course, 3 credits _____

Additional USP Requirements:

These may be a part (embedded) of courses in the above USP categories or courses in the major.

(WB)	Writing 2	_____
(WC)	Writing 3	_____
(L)	Information Literacy	_____
(D)	U.S. Diversity	_____
(G)	Global Awareness	_____

A&S Core:

Foreign Language: For students at the introductory level of a language, 2 courses (8 credits total) in the same language (with a minimum grade of C in the second semester) are required.

Or Two Upper-Division Courses (3XXX-level or above) outside the department/program in which the student's major resides and none that are cross-listed with courses in the department of the major. This cross-listing rule does not apply to majors in the A&S interdisciplinary programs (American Studies, International Studies, Microbiology, or Women's Studies). These courses cannot be used to also fulfill the USP components of P, I, QA, QB, O, V, WA, S, SB, SE, SP, C, CA, CS, or CH. These courses may also be used in a minor or a second major or in the Program Supporting Courses.

1 course, 3-4 credits _____ 1 course, 3-4 credits _____

Non-Western (NW): Approved courses may simultaneously fulfill other requirements in University Studies program, the A&S Core, or courses in the major, minor, or second major. Approved courses are listed on the A&S Website.

1 course, 3 credits _____

University Upper Division Requirement:

48 credits (3XXX-level or above): 30 of which must be earned from the University of Wyoming.

_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

The following courses are for the major requirements and are offered in no particular order. Please consult with your advisor for scheduling sequence. (**Courses offered in alternating years (S) – Spring Only (F) – Fall Only)

COURSE	USP	CREDITS	PREREQUISITES
☐ CHEM 1001 Chemistry Community	I, L	1.0	None
--CHEM 1001 is recommended, not required			
☐ CHEM 1020 General Chemistry I	SP	4.0	Math ACT 23, or Concur MATH 1400 Or 1405 or 1450
or			
☐ CHEM 1050 Advanced General Chemistry I (F)	SP	4.0	1 yr H.S. Chem & Math ACT 27 or Concur MATH 2200
☐ CHEM 1030 General Chemistry II	SP	4.0	1020
or			
☐ CHEM 1060 Advanced General Chemistry II (S)	SP	4.0	1020 (w/consent) or 1050
☐ CHEM 2230 Quantitative Analysis (S)		4.0	1030, 1060 or equiv
☐ CHEM 2420 Organic Chemistry I		4.0	1030 or 1060
☐ CHEM 2440 Organic Chemistry II (S)		4.0	1030 or 1060&2420
☐ CHEM 4400 Biological Chemistry (F)		3.0	2440
or			
☐ MOLB 3610 Principles of Biochemistry (F)		4.0	LIFE 1010 & C or better in CHEM 2300 or 2440
or			
☐ MOLB 4600 General Biochemistry I (F)		3.0	LIFE 1010, MOLB 3000 & C or better in CHEM 2300 or 2440
☐ CHEM 4000 Career Skills (F)		1.0	Concur 4110
☐ CHEM 4100 Inorganic chemistry Laboratory (F)		2.0	2440 and 4110 (or concur 4110)
☐ CHEM 4110 Introductory Inorganic Chemistry (F)		3.0	2420
☐ CHEM 4230 Instrumental Methods of Chemical Analysis (F)		4.0	2230
☐ CHEM 4507 Physical Chemistry I (F)	SP	3.0	1 yr gen chemistry, MATH 2210, PHYS 1220/1320
☐ CHEM 4508 Physical Chemistry II (S)	SP	3.0	4507
☐ CHEM 4525 Physical Chemistry Laboratory I (F)		1.0	4507 or Concur 4507
or			
☐ CHEM 4530 Physical Chemistry Laboratory II (S)		1.0	4508 or Concur 4508
☐ CHEM 4930 Undergraduate Research		3.0 (max9)	Consent of Instructor
☐ MATH 2200 Calculus I	QB	4.0	C in 1405 or 1450 or Level 5 Math Placement or ACT Math 27 or SAT Math 600
☐ MATH 2205 Calculus II		4.0	C in 2200 or Advanced Placement in 2200
☐ MATH 2210 Calculus III		4.0	C in 2205 or Advanced Placement in 2205
☐ PHYS 1210 Engineering Physics I	SP	4.0	C in MATH 2200 & Concur in MATH 2205
or			
☐ PHYS 1310 College Physics I (F)	SP	4.0	MATH 2200 & Concur in MATH 2205
☐ PHYS 1220 Engineering Physics II	SP	4.0	C in 1210, MATH 2200, 2205 & Concur in 2210
or			
☐ PHYS 1320 College Physics II (S)	SP	4.0	1310, MATH 2200, 2205 & Concur in 2210

Upper Division Electives – 2-3 hours (Not 4920)

☐ Course: _____

Computer Science – 3-4 hours

☐ Course: _____
or
☐ CHEM 4515 Applied Math for Physical Chemistry (S) 3.0
or
☐ STAT 2050 Fundamentals in Statistics 4.0

Program Supporting Courses – 18 hours (must be approved by Undergraduate Studies Committee). Non-chemistry courses may also be used in a minor or second major, or in the A&S Core Upper Division Outside Major courses. May not include more than 3 hours in CHEM 4920 or 9 hours in CHEM 4930.

☐ Course: _____

☐ Course: _____

☐ Course: _____

☐ Course: _____

☐ Course: _____

☐ Course: _____