

University of Wyoming Sample Four-Year Degree Plan
Catalog Year: 2018-19

Secondary Chemistry Education, BA with Concurrent Major in Chemistry



This sample degree plan is a guide, to be used for planning in consultation with your academic advisor. Actual course sequence may vary by student. A ▲ symbol identifies courses that must be taken and passed during the suggested semester in order for a student to stay on track toward completing the degree program within four years.

Sequence	Course Prefix	Course Number	Course Title	Credit Hours	Min Grade	Notes
			USP First-Year Seminar	3	C	FY
			USP US & Wyoming Constitution	3	C	V- Required for WY Substitute Teaching Permit.
	CHEM	1020	General Chemistry I	4	C	PN
	EDST	2450	Foundations of Development and Learning *	3	C	H- Prerequisite: Minimum UW GPA of 2.50.
	MATH	2200	Calculus I **	4	C	Q
Credit hours subtotal:				17		

Freshman Spring Semester

	CHEM	1030	General Chemistry II	4	C	Can substitute CHEM 1060 (Advanced Gen Chem I)
	ENGL	1010	College Composition and Rhetoric	3	C	C1. Honors Program can substitute HP 1020.
	ITEC	2360	Teaching with Technology *	3	C	Prerequisite of a 2.5 cumulative UW gpa.
	MATH	2205	Calculus II	4	C	
Credit hours subtotal:				14		

Sophomore Fall Semester

	CHEM	2420	Organic Chemistry I	4	C	
	LIFE	1010	General Biology	4	C	PN
	MICR	2021	General Microbiology	4	C	Crosslisted with MOLB 2021
	PHYS	1110	General Physics I	4	C	Can substitute PHYS 1210 (Engineering Physics I)
Credit hours subtotal:				16		

Sophomore Spring Semester

	CHEM	2230	Quantitative Analysis	4	C	
	CHEM	2440	Organic Chemistry II	4	C	
	EDEX	2484	Introduction to Special Education	3	C	Admission to Phase I of the program required. #
	PHYS	1120	General Physics II	4	C	Can substitute PHYS 1220 (Engineering Physics II- requires MATH 2210 [Calculus III] or concurrent enrollment).
Credit hours subtotal:				15		

This is a guide for course work in the major; actual course sequence may vary by student. Please refer to the online student degree evaluation, and consult with an academic advisor. • Not all courses are offered every semester and some electives may have prerequisites. Students should review the course descriptions in the University Catalog and consult with their academic advisor to plan accordingly.

University of Wyoming requirements:

Students must have a minimum cumulative GPA of 2.0 to graduate. • Students must complete 42 hours of upper division (3000-level or above) coursework, 30 of which must be from the University of Wyoming. • Courses must be taken for a letter grade unless offered only for S/U. • University Studies Program (USP) Human Culture (H) and Physical & Natural World (PN) courses must be taken outside of the major subject, but can be cross-listed with the major.

College of Education requirements:

The College of Education maintains rigorous admission standards to ensure the quality of preparation for future educators. This plan assumes students are able to start taking 1000-level courses the first semester of college. All professional education courses and all major content courses must be completed with a grade of C or higher. A minimum 2.50 gpa is required in major content. Current UW students wishing to change their major, students seeking re-admission to UW, or those transferring to UW from another institution can learn more about the specific admission requirements for these groups at: <http://www.uwyo.edu/ste/teacher-preparation-and-advising-office/admission%20requirements.html>. All students must undergo and pass an initial criminal background check prior to full admission to the College of Education. Any costs associated with the background check are the responsibility of the student. A second background check is included as part of the state application process for the Wyoming Substitute Teaching Permit, which is required for admission to Phase II of UW's teacher education program. Criminal background checks are a standard for the profession.

Notes continued on next page(s).

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Course Sequence	Course Prefix	Course Number	Course Title	Credit Hours	Min Grade	Notes
Junior Fall Semester						
	CHEM	3550	Physical Chemistry for Life Sciences	4	C	Can substitute CHEM 4507 (Physical Chemistry I)
	STAT	2050	Fundamentals of Statistics	4	C	
	CHEM	4110	Introductory Inorganic Chemistry	3	C	
	EDST	2480	Diversity and the Politics of Schooling	4	C	H- Must meet all prerequisites for Phase I. #
Credit hours subtotal:				15		
Junior Spring Semester						
	CHEM	4400	Biological Chemistry	3	C	Can substitute MOLB 3610 (Prin of Biochemistry)
	EDST	3000	Teacher as Practitioner	6	C	C2. Admission to Phase II required. #
	CHEM	4100	Inorganic Chemistry Laboratory	2	C	
	EDST	3550	Educational Assessment	2	C	Prerequisites: EDST 2480; USP Q; 2.75 UW cumulative GPA.
Credit hours subtotal:				13		
Senior Fall Semester						
▲	EDSE	3275	Methods I: Secondary Science Education	3	C	Admission to Phase IIIa of the program required. #
▲	EDSE	4275	Methods II: Secondary Science Education	4	C	C3; Admission to Phase IIIa of the program required. #
			LIFE/MOLB Upper Division Elective	3	C	
			LIFE/MOLB Upper Division Elective	3	C	
			Upper Division Elective	3	C	Toward min. of 120 total credits required for graduation
Credit hours subtotal:				16		
Senior Spring Semester						
▲	EDSE	4500	Residency in Teaching	15	S	Offered spring semester only. Admission to Phase IIIb of the program required. #
Credit hours subtotal:				15		
TOTAL CREDIT HOURS				121		

College of Education requirements continued:

Bachelors degrees in the College of Education operate in a series of phases: Phase I, Phase II, Phase IIIa, and Phase IIIb. Continuation in the program in any content area is dependent upon the successful completion of prerequisites for each phase. A minimum 2.75 cumulative UW gpa is required for Phase II, and Phases IIIa/IIIb of the program, and to meet College of Education graduation requirements. Specific information about these requirements can be found on the program sheets for each content area that are located at: <http://www.uwyo.edu/stc/teacher-preparation-and-advising-office/majors-and-program-sheets/>.

Concurrent Majors: All Secondary Education degree programs in the College of Education include a concurrent major in the student's content area.

Secondary Chemistry Education with Concurrent Major in Chemistry Program notes:

* The course prerequisite of a 2.50 cumulative UW gpa is waived for new, incoming students who have declared education as their major.

** Requires MATH ACT ≥ 27 , MATH SAT ≥ 640 , Math Placement Exam ≥ 5 , or $\geq C$ in MATH 1405 or MATH 1450. (University standard)