

Bachelor of Science in
Secondary Education
Concentration in Chemistry
2026-2027 Academic Bulletin



First Year

1st Semester (16 hrs)			2nd Semester (20 hrs)		
Course	Title	hrs	Course	Title	hrs
ENGL A101	Composition	3	ENGL A102	Composition and Literature	3
MATH A108	College Algebra	3	MATH A111/A122	Precalculus I or Survey of Calculus	3
HIST A101/A102	Gen. Ed. Global Cultures	3	GEN ED	Social and Behavioral Sciences	3
GEN ED	Humanities	3	GEN ED	Humanities	3
BIOL A121	Biological Science I	4	BIOL A122	Biological Science II	4
			CHEM A111	General Chemistry I	4

Second Year

1st Semester (20 hrs)			2nd Semester (18 hrs)		
Course	Title	hrs	Course	Title	hrs
EDPY A334	Adolescent Development	3	EDSE A312	Teaching Diverse Populations	3
COMM A201/A241	Gen. Ed. Oral Communication	3	EDFN A321	Dynamics Amer Public Educ	3
SCHOOL REQ.	School Elective (STAT A201 rec.)	3	EDUC A245	Technology Integration	3
HIST A201/A202 or POLI A201	Gen. Ed. American Political Institutions	3	CHEM A310	Research Methods in Chem. (Sp. only)	1
PHYS A201	General Physics I (Fall only)	4	PHYS A202	General Physics II (Sp. only)	4
CHEM A112	General Chemistry II	4	CHEM A331/A331L	Organic Chemistry I and Lab	4

Third Year

1st Semester (21 hrs)			2nd Semester (19 hrs)		
Course	Title	hrs	Course	Title	hrs
SCHOOL REQ.	Social or Behavioral Science	3	EDRD A518	Content Area Read/Writing	3
SCHOOL REQ.	Humanities or Foreign Language	3	EDSE A446	Class Management/Assessment	4
EDRD A318	Foundations in Reading	3	CHEM A511	Adv. Inorganic Chem. (Sp. Only)	4
CHEM A311/A311L	Intro. to Inorganic Chem and Lab	4	CHEM A332/A332L	Organic Chem. II and Lab	4
CHEM A541/A541L	Phys. Chem I and Lab (Fall only)	4	CHEM A542/A542L	Phys. Chem II and Lab (Sp. Only)	4
CHEM A321/A321L	Quantitative Analysis and Lab (Fall only)	4			

Fourth Year

1st Semester (15/16 hrs)			2nd Semester (15 hrs)		
Course	Title	hrs	Course	Title	hrs
EDSE A453	Teaching Science in MS and HS	4	EDSE A471	Internship	12
BIOL A541	Principles of Biochemistry	4	EDSE A476	Senior Seminar	3
CHEM A499	Senior Research	3			
CHEM A522/A550	Subject Area Requirement	4/5			

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