

B.S. Chemistry with Initial Licensure in Secondary Education

(with minor in Middle School and Secondary Education)

First Year

Fall

Course Number	Course Title	Credits (14)
CHEM 1300	General Chemistry I (additional notes below)	4
ENGL 1100	Writing I (W)	3
FYE 1015	First Year Seminar (R&IL)	3
MATH 1300	Precalculus (QR)	4

Spring

Course Number	Course Title	Credits (17)
CHEM 1400	General Chemistry II (additional notes below)	4
ENGL 1200	Writing II (W&IL)	3
MATH 2300	Calculus I	4
CHEM 1860	Introduction to Education (5-12) (additional notes below)	3
	General Education (WS)	3

Sophomore Year

Fall

Course Number	Course Title	Credits (15)
CHEM 2000	Organic Chemistry I	4
MATH 2400	Calculus II	4
BIOL 1800	General Biology I (SI)	4
EDUC 2011	Diversity in Education (5-12) (DP) (additional notes below)	3

Spring

Course Number	Course Title	Credits (14)
CHEM 2100	Organic Chemistry II	4
CHEM 2400	General Analytical Chemistry	4
EDUC 2012	Teaching the Adolescent Learner (additional notes below)	3
	General Education/Exploration	3

Junior Year

Fall

Course Number	Course Title	Credits (16)
CHEM 3600	Descriptive Inorganic Chemistry OR General Education/Exploration	3
PHYS 2300	Physics I (PL)	4
SPED 3800	Inclusive Instruction (Additional Notes Below)	3
	General Education/Exploration	3
	General Education/Exploration	3

Spring

Course Number	Course Title	Credits (16-17)
CHEM 3200	Physical Chemistry (additional notes below)	3-4
CHEM 3030	Biochemistry I	3
PHYS 2400	General Physics II	4
CHEM 3015	Methods of Teaching Chemistry I (additional notes below)	3
CHEM 4750	Chemistry Seminar (Capstone) (additional notes below)	3

Senior Year

Fall

Course Number	Course Title	Credits (15)
CHEM 3600	Descriptive Inorganic Chemistry OR General Education/Exploration	3
CHEM 4850	Methods in Teaching Chemistry II (additional notes below)	3
EDUC 3122	Sheltered English Immersion General Education/Exploration	3 3
	General Education/Exploration	3

Spring

Course Number	Course Title	Credits (12)
CHEM 4012	Practicum Seminar	3
CHEM 4860	Practicum in a Secondary School I	4.5
CHEM 4870	Practicum in a Secondary School II	4.5

Completion of 120 credits is required for graduation

General Education

Foundation (3 credits each)

- Reading & Info Literacy First-Year Exper. (R & IL)
- Writing (W): Writing I
- Writing & Info. Literacy (W & IL): Writing II
- Quantitative Reasoning (QR)
- World Languages, Speaking and Listening (WS)

Exploration (3 credits each)

- Civic Learning (CV)
- Diverse Perspectives (DP)
- Ethical Reasoning (ER)
- Fine Arts Expression & Analysis (FA)
- Historical Inquiry & Analysis (HI)
- Literary Inquiry & Analysis (LI)
- Personal Wellness (PW)
- Procedural & Logical Thinking (PL)
- Scientific Inquiry & Analysis (SI)

General Education: MAJ

There may be major courses that have been approved to fulfill up to 3 General Education requirements (at least 9 credits). Varies by major and concentration.

Additional Notes

- CHEM 1300/CHEM 1400 - (General Chemistry I) requires a "passing" score on Advanced Algebra and Functions Accuplacer placement exam OR successful completion of MATH 0500 (Algebraic Preparation)
- CHEM 4750/CHEM 3200 - Chemistry Seminar and other required upper level chemistry courses including Physical Chemistry are offered approximately once every two years based on student demand in either fall or spring. Students should work carefully with their advisor to make sure they are prepared to take those courses in the semester they are offered.
- EDUC courses - These courses are required for completion of the minor in Middle School and Secondary Education. Students must complete this minor for the Initial Licensure in Secondary Education.