

Chemistry: Secondary Education

Degree Type

Bachelor of Science

Division Dean: Clay Barton, M.Ed.

Department Chair: Steve Lambert, Ph.D.

Associate Professor: Steve Lambert, Ph.D.

Assistant Professor: Daisy Bourassa-Dowd, Ph.D., Peter Foster, Ph.D.

Adjunct Faculty: James Chocklett, M.S., Ernest Lyerly, B.S.

Requirements for the Major in Chemistry with a concentration in **Secondary Education** (not including General Education Core).

Requirements for the Major

Item #	Title	Credits
CHE 113	General Chemistry I	4
CHE 114	General Chemistry II	4
CHE 211	Laboratory Safety	1
CHE 231	Organic Chemistry I	3
CHE 241	Organic Chemistry Laboratory I	2
CHE 232	Organic Chemistry II	3
CHE 242	Organic Chemistry Laboratory II	2
CHE 301	Biochemistry I	4
CHE 321	Analytical Chemistry I	4
CHE 330	Environmental Chemistry	4
CHE 375	Inorganic Chemistry	4
CHE 391	Investigative Chemistry	2
CHE 445	Physical Chemistry I	4

Required Education Courses

Item #	Title	Credits
EDU 224	Foundation of Teaching and Learning	3
EDU 228	Foundations of Literacy	3
EDU 230	Human Development and Learning	3
EDU 232	Inclusive, Equitable, and Differentiated Instructional Practices	3
EDU 300	Assessment for Learning	3
EDU 342	Classroom Environment for Middle and High School Classrooms	3
EDU 350	Advanced Assessment	3
EDU 382	Technology and Teaching	3
EDU 455	Content Area Literacy in Middle and High Schools	3
EDU 480	Internship. (All Licensure Programs)	12
EDU 483	Internship Seminar (All Licensure Programs)	3

Required Ancillary Coursework:

Item #	Title	Credits
BIO 121	Biological Science	4
MAT 211	Calculus I—Differential Calculus	4

Choose a PHY sequence:

Item #	Title	Credits
PHY 101	Fundamentals of Physics I	4
PHY 102	Fundamentals of Physics II	4
PHY 213	Physics for Science and Engineering Students I	4
PHY 214	Physics for Science and Engineering Students II	4

Other Requirements

Item #	Title	Credits
SCI 114	Scientific Ethics	3
SCI 321	Methods of Teaching Secondary Science	3
	Total Credits	105