## CHEMISTRY & SECONDARY EDUCATION (B.A.S.)

The goal of the Salve B.A.S. in Chemistry and Secondary Education is to provide a curriculum that, in four years, gives students a solid foundation in chemistry and also the coursework necessary for certification to teach chemistry at the secondary level. To earn the double major in Chemistry and Secondary education, students complete the courses required for a B.A. in Chemistry and must also meet the requirements for secondary education. It is considered crucial that graduates be fully-trained chemists, capable of working in a range of technical positions outside of secondary education. The curriculum also seeks to expand the scientific background/perspective of graduates by requiring courses in other general scientific disciplines including Math and Physics.

Chemistry & Secondary Education (B.A.S.) majors complete a minimum of 120 credits to earn a bachelor's degree, including 41–44 credits of core courses (https://catalog.salve.edu/undergraduate/curriculum-degree-programs/), 51 credits of chemistry courses, and 43 credits of secondary education courses. See Education Department (https://catalog.salve.edu/undergraduate/academic-programs/education/) for requirements of the Secondary Education (B.A.S.) major.

Code	Title	Credits
Required Course	s	
CHM-113	General Chemistry I	4
CHM-114	General Chemistry II	4
CHM-205	Organic Chemistry I	4
CHM-206	Organic Chemistry II	4
CHM-301	Analytical Chemistry	4
CHM-305	Physical Chemistry I	4
CHM-408	Inorganic Chemistry	4
CHM-410	Topics in Chemistry and Research Capstone	3
Select one elective course:		
BCH-403	Biochemistry	
CHM-306	Physical Chemistry II	
CHM-309	Instrumental Analysis	
CHM-407	Advanced Organic Chemistry	
Mathematics		
MTH-195	Calculus I	4
MTH-196	Calculus II	4
Physics		
PHY-205	Principles of Physics I	4
PHY-206	Principles of Physics II	4
Total Credits		51

## **Degree Plan for Chemistry & Secondary Education (B.S.)**

Course	Title	Credits
First Year		
Fall		
FYT-101	First Year Studio	1
UNV-101	University Seminar	3
CHM-113	General Chemistry I	4
MTH-195	Calculus I	4
Core Course		3

Core Course		3
	Credits	18
Spring		
UNV-102	University Seminar II	3
CHM-114	General Chemistry II	4
MTH-196	Calculus II	4
EDC-120	Introduction to Race and Inequity in American	3
	Education	
Core Course		3
	Credits	17
Second Year		
Fall		
GST-098	Sophomore Studio <sup>1</sup>	1
SCD-298	Secondary Field Experience in a Multicultural Society I	1
CHM-205	Organic Chemistry I	4
PHY-205	Principles of Physics I	4
SCD-212	Teaching Literacy in the Content Area	3
SCD-220	Child and Adolescent Development and the Theories of	3
005 220	Learning	· ·
Core Course	-	3
	Credits	19
Spring		
CHM-206	Organic Chemistry II	4
PHY-206	Principles of Physics II	4
SED-211	Introduction to the Characteristics of Students with	3
	Exceptionalities	Ĭ
SCD-299	Secondary Field Experience in a Multicultural Society II	1
Core Course		3
Core Course		3
	Credits	18
Third Year		
Fall		
RTS-225	The Quest for the Ultimate: Dialogue with Global	3
or PHL-225	Religious Traditions <sup>2</sup>	
	or Quest for the Good Life	
CHM-301	Analytical Chemistry	4
SCD-320	Curriculum, Instruction and Assessment in the	3
	Secondary School I	
SCD-321	Practicum I for Curriculum, Instruction and	1
	Assessment in the Secondary School I	
CHM Elective		4
	Credits	15
Spring		
RTS-225	The Quest for the Ultimate: Dialogue with Global Religious Traditions <sup>2</sup>	3
or PHL-225	or Quest for the Good Life	
CHM-408	Inorganic Chemistry	4
SCD-323	Curriculum Instruction and Assessment In the	3
005 020	Secondary School II	· ·
SCD-322	Practicum II for Curriculum, Instruction and	1
	Assessment in Secondary School II	
SCD-310	Strategies for Teaching Secondary English Learners	2
Core Course		3
	Credits	16
Fourth Year		
Fall		
CHM-305	Physical Chemistry I	4
CHM-410	Topics in Chemistry and Research Capstone	3
SCD-440	Practicum in Secondary Education	3
SCD-410	Classroom Management	3
Core Course	-	3
	Credits	16

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Spring

	Credits  Total Credits	13
SCD-441	Secondary Student Teaching	12
SCD-432	Student Teaching Seminar Capstone	1

This weekend workshop may be taken in either the fall or spring semester of sophomore year.
 One each semester.