

B.A. in Science Education 9-12 (Chemistry Emphasis) 2017-2018: Option 1 - CWILT

First Year					
Fall	Credits	Interim	Credits	Spring	Credits
<u>CHE113 & 113D (or CHE 208/208D Accelerated General Chemistry/Lab)</u>				<u>CHE214 & CHE215 (or elective if CHE 208/208D was taken in fall) General Chemistry II</u>	
<u>General Chemistry I General Chemistry I Lab *2</u>	4	<u>BIB101 Introduction to the Bible</u>	3	<u>General Chemistry II Lab *2</u>	4
<u>MAT124M Calculus 1</u>	4			<u>GES125 Introduction to the Creative Arts</u>	4
<u>GES130 Christianity Western Culture</u>	4			<u>GES140 Introduction to Wellbeing</u>	3
<u>GES160 Inquiry Seminar</u>	3			<u>MAT125 Calculus 2</u>	4
	15		3		15
Second Year					
Fall	Credits	Interim	Credits	Spring	Credits
<u>CHE200 Laboratory Safety and Chemical Hygiene</u>	1	<u>Contemporary Western Life and Thought (L) course</u>	3	<u>CHE226 & CHE227 Organic Chemistry II and Organic Chemistry II Lab</u>	4
<u>CHE224 & CHE225 Organic Chemistry I and Organic Chemistry I Lab</u>	4			<u>PHY296 & PHY297 General Physics II and General Physics II Lab</u>	4
<u>PHY292 & 292D General Physics I and General Physics I Lab</u>	4			<u>EDU200 Introduction to Education</u>	3
<u>World Cultures (U) course</u>	3			<u>EDU201 Introduction to Education Field Experience</u>	1
				<u>Second Language (S) Course¹</u>	4
	12		3		16
Third Year					
Fall	Credits	Interim	Credits	Spring	Credits
<u>CHE395 Chemistry Seminar: Research and Professional Development</u>	1	<u>Science, Technology, and Society (K) course</u>	3	<u>CHE490 Chemistry Seminar: Research</u>	2
<u>EDU203 School Health and Drugs</u>	2			<u>CHE312 & CHE313 Quantitative Analysis and Quantitative Analysis Lab</u>	4
<u>THE201 Christian Theology</u>	3			<u>EDU240 Educational Psychology</u>	3
<u>Artistic Experience (A) course</u>	0-3			<u>EDU241 Educational Psychology Field Experience</u>	1
<u>Leisure and Lifetime Sports (Q) course</u>	1			<u>Interpreting Biblical Themes (J) course</u>	3
<u>Electives</u>	6				
	13-16		3		13
Fourth Year					
Fall	Credits	Interim	Credits	Spring	Credits
<u>CHE344 Thermodynamics, Kinetics, and Statistical Mechanics</u>	3	<u>Interim Off</u>	0	<u>EDU490 Student Teaching Block</u>	14
<u>CHE345 Thermodynamics, Kinetics, and Statistical Mechanics Lab</u>	1			<u>CHE494 Chemistry Seminar: Research Presentation</u>	1
<u>EDU320 Pedagogy and the Young Adolescent Learner</u>	1				
<u>EDU321 Integrated Literacy in the Content Areas</u>	1				
<u>EDU420 Methods in Teaching 5-12 Science</u>	3				
<u>EDU429 Science Education Practicum in Grades 5-8 or 5-12</u>	1				
<u>EDU317GZ Educational Equity</u>	3				
<u>Contemporary Christian Issues (P) course</u>	3				
	16		0		15
Total Credits: 124-127					

*1. Students must complete through the second semester of a first year language course or equivalent.

*2. CHE208/CHE208D is a one-semester course that meets the requirements of CHE113/CHE113D and CHE214/CHE215. Students taking CHE208/CHE208D may choose an elective in the spring semester of their freshman year.

*3. The Education Department offers an interim trip that meets the U requirement - EDU236UZ or EDU204UZ. See Education Abroad Options.

See Education section of catalog for testing requirements.

This program assumes student will use BIO118/BIO118D, EDU317GZ, and math course to meet the general education Laboratory Science, Comparative Systems, and Math requirements.

Because of possible double counting between General Education and the major, the actual total can be reduced to 122.

Most financial aid packages stipulate 12 credits/semester; Minnesota state grants are reduced when credit load falls below 15 credits/semester. (Interim credits may be split between fall and spring for state grant purposes only.)

B.A. in Science Education 9-12 (Chemistry Emphasis) 2017-2018: Option 2 - Humanities

First Year					
Fall	Credits	Interim	Credits	Spring	Credits
<u>CHE113 & 113D (or CHE208/CHE208D Accelerated General Chemistry/Lab) General Chemistry I & General Chemistry I Lab *2</u>	4	<u>GES147 Humanities II: Renaissance and Reformation</u>	4	<u>CHE214 & CHE215 (or elective if CHE208/208D was taken in fall) General Chemistry II & General Chemistry II Lab *2</u>	4
<u>MAT124M Calculus 1</u>	4			<u>MAT125 Calculus 2</u>	4
<u>GES145 Humanities I: Greco-Roman through Middle Ages</u>	4			<u>GES244 Humanities III: European Enlightenment and American Culture to 1877</u>	4
<u>GES140 Introduction to Wellbeing</u>	3			<u>BIB101 Introduction to the Bible</u>	3
	15		4		15
Second Year					
Fall	Credits	Interim	Credits	Spring	Credits
<u>CHE200 Laboratory Safety and Chemical Hygiene</u>	1	<u>EDU200 Introduction to Education</u>	3	<u>CHE226 & CHE227 Organic Chemistry II and Organic Chemistry II Lab</u>	4
<u>CHE224 & CHE225 Organic Chemistry I and Organic Chemistry I Lab</u>	4	<u>EDU201 Introduction to Education Field Experience</u>	1	<u>PHY296 & PHY297 General Physics II and General Physics II Lab</u>	4
<u>PHY292 & 292D General Physics I and General Physics I Lab</u>	4			<u>EDU203 School Health and Drugs</u>	2
<u>GES246 Humanities IV: Modern and Contemporary Western Culture</u>	4			Second Language (S) course ¹	4
	13		4		14
Third Year					
Fall	Credits	Interim	Credits	Spring	Credits
<u>CHE395 Chemistry Seminar: Research and Professional Development</u>	1	Interim Off		<u>CHE490 Chemistry Seminar: Research</u>	2
World cultures (U) course ³	3			<u>& CHE313 Quantitative Analysis and Quantitative Analysis Lab</u>	3
Science, technology and Society (K) course	3			<u>EDU240 Educational Psychology</u>	3
Leisure and Lifetime Sports (Q) course	1			<u>EDU241 Educational Psychology Field Experience</u>	1
Electives	6			Interpreting Biblical Themes (J) course	3
	14		0	Artistic Experience (A) course	0-3
					12-15
Fourth Year					
Fall	Credits	Interim	Credits	Spring	Credits
<u>CHE344 & CHE345 Thermodynamics, Kinetics, and Statistical Mechanics and Thermodynamics, Kinetics, and Statistical Mechanics Lab</u>	4	Contemporary Christian Issues (P) course	3	<u>EDU490 Student Teaching Block</u>	14
<u>EDU320 Pedagogy and the Young Adolescent Learner</u>	1			<u>CHE494 Chemistry Seminar: Research Presentation</u>	1
<u>EDU321 Integrated Literacy in the Content Areas</u>	1				
<u>EDU420 Methods in Teaching 5-12 Science</u>	3				
<u>EDU429 Science Education Practicum in Grades 5-8 or 5-12</u>	1				
<u>EDU317GZ Educational Equity</u>	3				
	13		3		15
Total Credits: 122-125					

*1. Students must complete through the second semester of a first year language course or equivalent.

*2. CHE208/CHE208D is a one-semester course that meets the requirements of CHE113/CHE113D and CHE214/CHE215. Students taking CHE208/CHE208D may choose an elective in the spring semester of their freshman year.

*3. The Education Department offers an interim trip that meets the U requirement - EDU236UZ or EDU204UZ. See Education Abroad Options.

See Education section of catalog for testing requirements.

This program assumes student will use BIO118/BIO118D, EDU317GZ, and math course to meet the general education Laboratory Science, Comparative Systems, and Math requirements.

Because of possible double counting between General Education and the major, the actual total can be reduced to 122.

Most financial aid packages stipulate 12 credits/semester; Minnesota state grants are reduced when credit load falls below 15 credits/semester. (Interim credits may be split between fall and spring for state grant purposes only.)