

## B.A. in Science Education 9-12: Life Science Emphasis 2019-2020: Option 1 - CWILT

FIRST YEAR					
Fall	Credits	Interim	Credits	Spring	Credits
<a href="#">BIO 122</a> & <a href="#">BIO 122D</a> Introduction to Organismic Biology and Introduction to Organismic Biology Lab	4	<a href="#">GES 160 Inquiry Seminar</a>	3	<a href="#">BIB 101 Introduction to the Bible</a>	3
<a href="#">CHE 113</a> & <a href="#">CHE 113D</a> General Chemistry I and General Chemistry I Lab	4			<a href="#">BIO 126</a> & <a href="#">BIO 127</a> Integrative Biology and Global Health and Integrative Biology and Global Health Lab	4
<a href="#">GES 130 Christianity Western Culture</a>	4			<a href="#">CHE 214</a> & <a href="#">CHE 215</a> General Chemistry II and General Chemistry II Lab	4
<a href="#">GES 140 Introduction to Wellbeing</a>	3			<a href="#">GES 125 Introduction to the Creative Arts</a>	4
	<b>15</b>		<b>3</b>		<b>15</b>
SECOND YEAR					
Fall	Credits	Interim	Credits	Spring	Credits
<a href="#">BIO 120</a> & <a href="#">BIO 120D</a> Introduction to Molecular and Cellular Biology and Introduction to Molecular and Cellular Biology Lab	4	World Cultures (U) course	3	<a href="#">BIO 238</a> & <a href="#">BIO 239</a> Human Anatomy and Physiology and Human Anatomy and Physiology Lab	4
<a href="#">BIO 380</a> & <a href="#">BIO 383</a> Environmental Plant Biology and Environmental Plant Biology Lab	4			<a href="#">EDU 200 Introduction to Education</a>	3
Contemporary Western Life and Thoughts (L) course	3			<a href="#">EDU 201 Introduction to Education Field Experience</a>	1
Leisure and Lifetime Sport (Q) course	1			Math choice: MAT123M, MAT124M, PSY230M , Calculus 1, Introduction to Statistical Methods and Experimental Design	4
				Second Language (S) course <sup>1</sup>	4
	<b>12</b>		<b>3</b>		<b>16</b>
THIRD YEAR					
Fall	Credits	Interim	Credits	Spring	Credits
<a href="#">BIO 399 Introduction to Research</a>	1	Interpreting Biblical Themes (J) course	3	<a href="#">BIO 354</a> & <a href="#">BIO 355</a> Cell Biology and Cell Biology Lab	4
<a href="#">EDU 317GZ Educational Equity</a>	3			<a href="#">BIO 4952 Biology Seminar</a>	1
<a href="#">THE 201 Christian Theology</a>	3			<a href="#">EDU 203 School Health and Drugs</a>	2
<a href="#">PHY 102</a> & <a href="#">PHY 102D</a> Physics of Everyday Life and Physics of Everyday Life-Lab	4			<a href="#">EDU 240 Educational Psychology</a>	3
Science, Technology & Society (K) course	4			<a href="#">EDU 241 Educational Psychology Field Experience</a>	1
				<a href="#">EDU 320 Pedagogy and the Young Adolescent Learner</a>	1
				<a href="#">EDU 321 Integrated Literacy in the Content Areas</a>	1
	<b>15</b>		<b>3</b>		<b>13</b>
FOURTH YEAR					
Fall	Credits	Interim	Credits	Spring	Credits
<a href="#">BIO 332</a> & <a href="#">BIO 333</a> Genetics and Genetics Lab	4	Interim Off		<a href="#">BIO 499 Biology Symposium</a>	1
<a href="#">BIO 496 Biology Research</a>	1			<a href="#">EDU 490 Student Teaching Block</a>	14
<a href="#">EDU 420 Methods in Teaching 5-12 Science</a>	3				
<a href="#">EDU 429 Science Education Practicum in Grades 5-8 or 5-12</a>	1				
Artistic Experience (A) course	0-3				
Contemporary Christian Issues (P) course	3				
	<b>15-Dec</b>		<b>0</b>		<b>15</b>
<b>Total Credits 122-125</b>					

1. Students must complete through the second semester of a first year language course or equivalent.
2. May be taken in fall of senior year.
3. The Education Department offers an interim trip that meets the U requirement - [EDU 236UZ](#). See [Education Abroad Options](#).

See Education section in catalog for testing requirements.

This program assumes a student will use [BIO 122D](#), [EDU 317GZ](#), and math course to meet the general education Laboratory Science, Comparative Systems, and Math requirements.

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: Life Science Emphasis 2019-2020: Option 2 - Humanities

FIRST YEAR					
Fall	Credits	Interim	Credits	Spring	Credits
<a href="#">BIO 122</a> & <a href="#">BIO 122D</a> Introduction to Organismic Biology and Introduction to Organismic Biology Lab	4	<a href="#">GES 147</a> Humanities II: Renaissance and Reformation	4	<a href="#">BIB 101</a> Introduction to the Bible	3
<a href="#">CHE 113</a> & <a href="#">CHE 113D</a> General Chemistry I and General Chemistry I Lab	4			<a href="#">BIO 126</a> & <a href="#">BIO 127</a> Integrative Biology and Global Health and Integrative Biology and Global Health Lab	4
<a href="#">GES 140</a> Introduction to Wellbeing	3			<a href="#">CHE 214</a> & <a href="#">CHE 215</a> General Chemistry II and General Chemistry II Lab	4
<a href="#">GES 145</a> Humanities I: Greco-Roman through Middle Ages	4			<a href="#">GES 244</a> Humanities III: European Enlightenment and American Culture to 1877	4
	15		4		15
SECOND YEAR					
Fall	Credits	Interim	Credits	Spring	Credits
<a href="#">BIO 120</a> & <a href="#">BIO 120D</a> Introduction to Molecular and Cellular Biology and Introduction to Molecular and Cellular Biology Lab	4	World Culture (U) course <sup>3</sup>	3	<a href="#">BIO 238</a> & <a href="#">BIO 239</a> Human Anatomy and Physiology and Human Anatomy and Physiology Lab	4
<a href="#">BIO 380</a> & <a href="#">BIO 383</a> Environmental Plant Biology and Environmental Plant Biology Lab	4			<a href="#">EDU 200</a> Introduction to Education	3
<a href="#">GES 246</a> Humanities IV: Modern and Contemporary Western Culture	4			<a href="#">EDU 201</a> Introduction to Education Field Experience	1
				Math choice: MAT123M, MAT124M, PSY230M , Calculus 1, Introduction to Statistical Methods and Experimental Design	4
				Second Language (S) course <sup>1</sup>	4
	12		3		16
THIRD YEAR					
Fall	Credits	Interim	Credits	Spring	Credits
<a href="#">BIO 399</a> Introduction to Research	1	Interpreting Biblical Themes (J) course	3	<a href="#">BIO 354</a> & <a href="#">BIO 355</a> Cell Biology and Cell Biology Lab	4
<a href="#">EDU 317GZ</a> Educational Equity	3			<a href="#">BIO 4952</a> Biology Seminar	1
<a href="#">PHY 102</a> & <a href="#">PHY 102D</a> Physics of Everyday Life and Physics of Everyday Life-Lab	4			<a href="#">EDU 203</a> School Health and Drugs	2
Science, Technology & Society (K) course	3			<a href="#">EDU 240</a> Educational Psychology	3
Leisure and Lifetime Sport (Q) course	1			<a href="#">EDU 241</a> Educational Psychology Field Experience	1
				<a href="#">EDU 320</a> Pedagogy and the Young Adolescent Learner	1
				<a href="#">EDU 321</a> Integrated Literacy in the Content Areas	1
	12		3		13
FOURTH YEAR					
Fall	Credits	Interim	Credits	Spring	Credits
<a href="#">BIO 332</a> & <a href="#">BIO 333</a> Genetics and Genetics Lab	4	Interim Off	0	<a href="#">EDU 490</a> Student Teaching Block	14
<a href="#">BIO 496</a> Biology Research	1			<a href="#">BIO 499</a> Biology Symposium	1
<a href="#">EDU 420</a> Methods in Teaching 5-12 Science	3				
<a href="#">EDU 429</a> Science Education Practicum in Grades 5-8 or 5-12	1				
Artistic Experience (A) course	3-Feb				
Contemporary Christian Issues (P) course	3				
	14-15		0		15
<b>Total Credits 122-123</b>					

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

2. May be taken in fall of senior year.

3. [The Education Department offers an interim trip that meets the U requirement - EDU 236UZ. See Education Abroad Options.](#)

See Education section of catalog for testing requirements.

This program assumes a student will use [BIO 122D](#), [EDU 317GZ](#), and math course to meet the general education Laboratory Science, Comparative Systems, and Math requirements.

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.)