

B.A. in Science Education 9-12 (Physics Emphasis) 2018-2019: Option 1 - CWILT

First Year					
Fall	Credits	Interim	Credits	Spring	Credits
PHY 292 & PHY 292D General Physics I and General Physics I Lab	4	GES 125 Introduction to the Creative Arts	4	PHY 296 & PHY 297 General Physics II and General Physics II Lab	4
MAT 124M Calculus 1	4			MAT 125 Calculus 2	4
GES 130 Christianity Western Culture	4			BIB 101 Introduction to the Bible	3
GES 160 Inquiry Seminar	3			GES 140 Introduction to Wellbeing	3
	15		4		14
Second Year					
Fall	Credits	Interim	Credits	Spring	Credits
CHE 113 & CHE 113D General Chemistry I and General Chemistry I Lab	4	Interim Off		CHE 214 & CHE 215 General Chemistry II and General Chemistry II Lab	4
MAT 223 Multivariable Calculus	3			EDU 200 Introduction to Education	3
PHY 302 & PHY 303 Electronics and Electronics Lab	4			EDU 201 Introduction to Education Field Experience	1
PHY 260 Careers in Engineering and Physics Seminar	1			PHY 312 & PHY 313 Modern Physics and Modern Physics Lab	4
Second Language (S) course*1	4			THE 201 Christian Theology	3
	16		0		15
Third Year					
Fall	Credits	Interim	Credits	Spring	Credits
PHY 112 & PHY 112D Introduction to Astronomy and Introduction to Astronomy Lab	4	World Cultures (U) course*2	3	EDU 203 School Health and Drugs	2
Interpreting Biblical Themes (J) course	3			EDU 241 Educational Psychology Field Experience	1
Science, Technology & Society (K) course	3			EDU 240 Educational Psychology	3
Leisure and Lifetime sports (Q) course	1			PHY 352 & PHY 353 Computer Methods in Physics and Engineering and Computer Methods in Physics and Engineering Lab	4
Elective	2			Contemporary Western Life and Thought (L) course	3
	13		3		13
Fourth Year					
Fall	Credits	Interim	Credits	Spring	Credits
EDU 317GZ Educational Equity	3	Contemporary Christian Issues (P) course	3	EDU 490 Student Teaching Block	14
EDU 320 Pedagogy and the Young Adolescent Learner	1				
EDU 321 Integrated Literacy in the Content Areas	1				
EDU 420 Methods in Teaching 5-12 Science	3				
EDU 429 Science Education Practicum in Grades 5-8 or 5-12	1				
Artistic Experience (A) course	0-3				
Elective	3				
	12-15		3		14
Total Credits 122-125					

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

2. The Education Department offers an interim trip that meets the U requirement - EDU236UZ. See Education Abroad Options.

This program assumes a student will use PHY292/292D, EDU317GZ, and MAT124M 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 (Physics Emphasis) 2018-2019: Option 2 - Humanities

First Year					
Fall	Credits	Interim	Credits	Spring	Credits
PHY 292 & PHY 292D General Physics I and General Physics I Lab	4	GES 147 Humanities II: Renaissance and Reformation	4	PHY 296 & PHY 297 General Physics II and General Physics II Lab	4
MAT 124M Calculus 1	4			MAT 125 Calculus 2	4
GES 145 Humanities I: Greco-Roman through Middle Ages	4			GES 244 Humanities III: European Enlightenment and American Culture to 1877	4
BIB 101 Introduction to the Bible	3			GES 140 Introduction to Wellbeing	3
	15		4		15
Second Year					
Fall	Credits	Interim	Credits	Spring	Credits
CHE 113 & CHE 113D General Chemistry I and General Chemistry I Lab	4	EDU 200 Introduction to Education	3	CHE 214 & CHE 215 General Chemistry II and General Chemistry II Lab	4
MAT 223 Multivariable Calculus	3	EDU 201 Introduction to Education Field Experience	1	EDU 200 Introduction to Education	3
PHY 302 & PHY 303 Electronics and Electronics Lab	4			EDU 201 Introduction to Education Field Experience	1
GES 246 Humanities IV: Modern and Contemporary Western Culture	4			PHY 312 & PHY 313 Modern Physics and Modern Physics Lab	4
PHY 260 Careers in Engineering and Physics Seminar	1			Secondary Language (S) Course*1	4
	16		4		16
Third Year					
Fall	Credits	Interim	Credits	Spring	Credits
PHY 112 & PHY 112D Introduction to Astronomy and Introduction to Astronomy Lab	4	World Cultures (U) course*2	3	EDU 203 School Health and Drugs	2
Interpreting Biblical themes (J) course	3			EDU 220 Introduction to Middle Level Education	3
Science, Technology and Society (K) course	3			EDU 240 Educational Psychology	3
Leisure and Lifetime Sports (Q) course	1			EDU 241 Educational Psychology Field Experience	1
Elective	3			PHY 352 & PHY 353 Computer Methods in Physics and Engineering and Computer Methods in Physics and Engineering Lab	4
	14		3		13
Fourth Year					
Fall	Credits	Interim	Credits	Spring	Credits
EDU 317GZ Educational Equity	3	Contemporary Christian Issues (P) course	3	EDU 490 Student Teaching Block	14
EDU 320 Pedagogy and the Young Adolescent Learner	1				
EDU 321 Integrated Literacy in the Content Areas	1				
EDU 420 Methods in Teaching 5-12 Science	3				
EDU 429 Science Education Practicum in Grades 5-8 or 5-12	1				
Artistic Experience (A) course	0-3				
Electives	3-6				
	12-18		3		14
Total Credits 129-135					

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

2. The Education Department offers an interim trip that meets the U requirement - EDU236UZ. See Education Abroad Options.

This program assumes a student will use PHY292/292D, EDU317GZ, and MAT124M 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.)