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

MN basic skills tests (MTLE) required for full admission to the Education Department.

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.)

^{*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 interim trips that meet the U requirement - EDU236UZ or EDU204UZ. See Education Abroad Options.

B.A. in Science Education 9-12 (Chemistry Emp	hasis) 2016-2017: Option 2 - Humanities		
First Year	·		
Fall	Credits Interim	Credits Spring	Credits
CHE113 & 113D General Chemistry I and General Chemistry 1 Lab (or	4 GES147 Humanities II: Renaissance and Reformation	4 CHE214 & CHE215 General Chemistry II and General Chemistry II Lab (or	4
CHE 208/208D Accelerated General Chemistry/Lab) *2		elective if CHE 208/208D was taken in fall) *2	
MAT124M Calculus *1	4	MAT125 Calculus *2	4
GES106 Introduction to Liberal Arts	1	GES244 Humanities III: European Enlightment and American Culture to 1877	4
GES145 Humanities I: Greco-Roman through Middle Ages	4	BIB101 Introduction to the Bible	3
Nature of Persons (N) course	3	Leisure and Lifetime Sports (Q) course	1
Electives	6-8		
	22-24	4	16
Second Year			
Fall	Credits Interim	Credits Spring	Credits
CHE200 Laboratory Safety and Chemical Hygiene	1 EDU200 Introduction to Education	3 CHE226 & CHE227 Organic Chemistry II and Organic Chemistry II Lab	4
CHE224 & CHE225 Organic Chemistry I and Organic Chemistry I Lab	4 EDU201 Introduction to Education Field Experience	1 PHY296 & PHY297 General Physics II and General Physics II Lab	4
PHY292 & 292D General Physics I and General Physics I Lab	4	EDU203 School Health and Drugs	2
PHY112 & 112D Introduction to Astronomy and Introduction to	4	PEA100 Physical Wellness for Life	1
Astronomy Lab			
GES246 Humanities IV: Modern and Contemporary Western Culture	4	Second Language (S) course *1	4
	17	4	15
Third Year			
Fall	Credits Interim	Credits Spring	Credits
CHE494 Chemistry Seminar: Research Presentation	1 Interim Off	CHE494 Chemistry Seminar: Research Presentation	1
World cultures (U) course *3	3	CHE312 & CHE313 Quantitative Analysis and Quantitative Analysis Lab	4
Science, technology and Society (K) course	3	EDU240 Educational Psychology	3
Cross Cultural Experience (Z) course	0-3	EDU241 Educational Psychology Field Experience	1
		Interpreting Biblical Themes (J) course	3
		Artistic Experience (A) course	0-3
	7-10	0	12-15
Fourth Year			
Fall	Credits Interim	Credits Spring	Credits
CHE344	4 Contemporary Christian Issues (P) course	3 EDU490 Student Teaching Block	14
& CHE345			
CHE494 Chemistry Seminar: Research Presentation	1	CHE494 Chemistry Seminar: Research Presentation	1
EDU320 Pedagogy and the Young Adolescent Learner	1		
EDU321 Integrated Literacy in the Content Areas	1		
EDU420 Methods in Teaching Secondary Science	3		
EDU429 Science Education Practicum in grades 5-8 or 5-12	1		
EDU317GZ Educational Equity	3		
	14	3	15
Total Credits: 129-137			

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