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

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| 12-15 0 | BIO 399 Introduction to Research THE 201 Christian Theology EDU 317GZ Educational Equity PHY 102 Physics of Everyday Life and Physics of Everyday Life- Lab Science, Technology & Society (K) course Fourth Year Fall BIO 496 Biology Research BIO 332 & BIO 333 Genetics and Genetics Lab EDU 429 Science Education Practicum in Grades 5-8 or 5-12 | 1 3 3 4 4 4 15 Credits 1 4 3 3 1 | Interpreting Biblical Themes (J) course | 3 | BIO 4952 Biology Seminar BIO 354 & BIO 355 Cell Biology and Cell Biology Lab EDU 203 School Health and Drugs EDU 240 Educational Psychology EDU 241 Educational Psychology Field Experience EDU 320 Pedagogy and the Young Adolescent Learner EDU 321 Integrated Literacy in the Content Areas Spring EDU 490 Student Teaching Block | 1 4 2 3 3 1 1 1 1 3 Credits 14 |
| | BIO 399 Introduction to Research THE 201 Christian Theology EDU 317GZ Educational Equity PHY 102 A PHY 102D Physics of Everyday Life and Physics of Everyday Life- Lab Science, Technology & Society (K) course Fourth Year Fall BIO 496 Biology Research BIO 332 & BIO 333 Genetics and Genetics Lab EDU 420 Methods in Teaching 5-12 Science EDU 429 Science Education Practicum in Grades 5-8 or 5-12 Artistic Experience (A) course | 1 3 3 4 4 4 15 Credits 1 4 3 3 1 1 0-3 | Interpreting Biblical Themes (J) course | 3 | BIO 4952 Biology Seminar BIO 354 & BIO 355 Cell Biology and Cell Biology Lab EDU 203 School Health and Drugs EDU 240 Educational Psychology EDU 241 Educational Psychology Field Experience EDU 320 Pedagogy and the Young Adolescent Learner EDU 321 Integrated Literacy in the Content Areas Spring EDU 490 Student Teaching Block | 1 4 2 3 3 1 1 1 1 3 Credits 14 |
| Total Credits 122-125 | BIO 399 Introduction to Research THE 201 Christian Theology EDU 317GZ Educational Equity PHY 102 A PHY 102D Physics of Everyday Life and Physics of Everyday Life- Lab Science, Technology & Society (K) course Fourth Year Fall BIO 496 Biology Research BIO 332 & BIO 333 Genetics and Genetics Lab EDU 420 Methods in Teaching 5-12 Science EDU 429 Science Education Practicum in Grades 5-8 or 5-12 Artistic Experience (A) course | 1 3 3 4 4 4 5 5 7 7 6 7 8 7 8 7 7 7 7 7 7 7 7 7 7 7 7 7 | Interpreting Biblical Themes (J) course | 3 Credits | BIO 4952 Biology Seminar BIO 354 & BIO 355 Cell Biology and Cell Biology Lab EDU 203 School Health and Drugs EDU 240 Educational Psychology EDU 241 Educational Psychology Field Experience EDU 320 Pedagogy and the Young Adolescent Learner EDU 321 Integrated Literacy in the Content Areas Spring EDU 490 Student Teaching Block BIO 499 Biology Symposium | 1 4 2 3 3 1 1 1 1 3 Credits 14 1 |

 Total Credits 122-125

 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 2018-2019: Option 2 - Humanities

| First Year | | - | <u>.</u> | - | |
|--|----------|--|----------|---|---------|
| Fall | Credits | Interim | Credits | Spring | Credits |
| BIO 122 | 4 | GES 147 Humanities II: Renaissance and Reformation | 4 | BIO 126 | 4 |
| & BIO 122D | | | | & BIO 127 | |
| Introduction to Organismic Biology and Introduction to | | | | Integrative Biology and Global Health and Integrative | |
| Organismic Biology Lab | | | | Biology and Global Health Lab | |
| CHE 113 | 4 | | | CHE 214 | 4 |
| & CHE 113D | | | | & CHE 215 | |
| General Chemistry I and General Chemistry I Lab | | | | General Chemistry II and General Chemistry II Lab | |
| General Chemistry Fand General Chemistry FLab | | | | General Chemistry II and General Chemistry II Lab | |
| GES 145 Humanities I: Greco-Roman through Middle | 4 | 1 | | GES 244 Humanities III: European Enlightenment and | 4 |
| Ages | | | | American Culture to 1877 | - |
| GES 140 Introduction to Wellbeing | 3 | | | BIB 101 Introduction to the Bible | 3 |
| | 15 | | 4 | | 15 |
| Second Year | | | | | 13 |
| Fall | Crodite | Interim | Crodite | Spring | Credits |
| BIO 120 | | World Culture (U) course 3 | | BIO 238 | 4 |
| & BIO 120 | 4 | world Culture (0) course 5 | 3 | & BIO 239 | 4 |
| | | | | Human Anatomy and Physiology and Human | |
| Introduction to Molecular and Cellular Biology and | | | | | |
| Introduction to Molecular and Cellular Biology Lab | | | I | Anatomy and Physiology Lab | |
| BIO 380 | 4 | | | EDU 200 Introduction to Education | 3 |
| & BIO 383 | | | | | |
| Environmental Plant Biology and Environmental Plant | | | | | |
| Biology Lab | | | | | |
| GES 246 Humanities IV: Modern and Contemporary | 4 | | | EDU 201 Introduction to Education Field Experience | 1 |
| Western Culture | | | | | |
| | | | | Math choice: MAT123M, MAT124M, PSY230M, | 4 |
| | | | | Calculus 1, Introduction to Statistical Methods and | |
| | | | | Experimental Design | |
| | | | | Second Language (S) course*1 | 4 |
| | 12 | | 3 | | 16 |
| Third Year | | • | | • | |
| Fall | Credits | Interim | Credits | Spring | Credits |
| BIO 399 Introduction to Research | 1 | Interpreting Biblical Themes (J) course | | BIO 4952 Biology Seminar | 1 |
| EDU 317GZ Educational Equity | 3 | | | BIO 354 | 4 |
| | - | | | & BIO 355 | |
| | | | | Cell Biology and Cell Biology Lab | |
| PHY 102 | Δ | | | EDU 203 School Health and Drugs | 2 |
| & PHY 102D | - | | | ED0 200 Concorn caller and Drugs | - |
| Physics of Everyday Life and Physics of Everyday Life- | | | | | |
| Lab | | | | | |
| Science, Technology & Society (K) course | 3 | 4 | | EDU 320 Pedagogy and the Young Adolescent | 1 |
| Science, Technology & Society (K) course | 3 | | | | 1 |
| | | | | Learner EDU 321 Integrated Literacy in the Content Areas | |
| Leisure and Lifetime Sport (Q) course | 1 | | | | 1 |
| | | | | EDU 240 Educational Psychology | 3 |
| | | T | | EDU 241 Educational Psychology Field Experience | 1 |
| | 12 | | 3 | | 13 |
| Fourth Year | | | | | |
| Fall | Credits | Interim | | Spring | Credits |
| BIO 496 Biology Research | 1 | Interim Off | 0 | EDU 490 Student Teaching Block | 14 |
| BIO 332 | 4 | | | BIO 499 Biology Symposium | 1 |
| & BIO 333 | | | | | |
| Constinue and Constinue Lab | | | | | |
| Genetics and Genetics Lab | | | | | |
| EDU 420 Methods in Teaching 5-12 Science | 3 | | | | |
| EDU 420 Methods in Teaching 5-12 Science | 3 | | | | |
| EDU 420 Methods in Teaching 5-12 Science EDU 429 Science Education Practicum in Grades 5-8 | 3 | | | | |
| EDU 420 Methods in Teaching 5-12 Science EDU 429 Science Education Practicum in Grades 5-8 or 5-12 | 1 | | | | |
| EDU 420 Methods in Teaching 5-12 Science EDU 429 Science Education Practicum in Grades 5-8 or 5-12 Artistic Experience (A) course | 1 2-3 | | | | |
| EDU 420 Methods in Teaching 5-12 Science EDU 429 Science Education Practicum in Grades 5-8 or 5-12 | 1 | | | | 15 |

Total Credits 122-123
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.

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