

Chemistry Education and Elementary Education Double Major

4.11.2017

| Requirements | Notes |
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| <ul style="list-style-type: none"> 178 credits for degree with two majors Maximum credit load of 18 per semester unless noted in professional semester. | <ul style="list-style-type: none"> Shaded courses must be taken concurrently as a block of classes. When two courses are on the same line, take the course offered that year. Courses in red are offered both semesters and may be switched |
| Successful completion of this major and licensure requirements provides students eligibility for: | |
| <ul style="list-style-type: none"> WELS Assignment: K-Grade 8, Chemistry – Grades 9-12 Minnesota Licensure: K-Grade 6, General Science – Grades 5-8, Chemistry – Grades 9-12 | |

| Semester I | | | Semester II | | |
|----------------------|-------------------------------------|-----------|----------------------|-------------------------------------|-----------|
| FRESHMAN YEAR | | | | | |
| ENG1303 | Rhetoric & Composition | 3 | ENG130x | Literature Seminar Option | 3 |
| MTH2010 | Calculus I | 3 | MTH1011 | Math: A Human Endeavor | 3 |
| MUSxxxx | Keyboard | 1 | MUSxxx | Vocal/Choral | 1 |
| MUSxxx | Vocal / Choral | 1 | MUSxxxx | Keyboard | 1 |
| PEDxxxx | 2 Phy Ed Activity Courses | 1 | SCI1003 & SCI1004 | Biology | 3 |
| PSY2002 | Psych of Human Growth & Development | 3 | SCI2025 / SCI2105 | General Chemistry I / Geology & Lab | 3 |
| THE1001 | Biblical History & Literature I | 3 | THE1002 | Biblical History & Literature II | 3 |
| xxxx | Fine Arts Elective | 3 | | | |
| Total Credits | | 18 | Total Credits | | 17 |

| Winterim / Field Experience Interim | | |
|-------------------------------------|--------------------------|------------------|
| EDU1401 | Early Field Experience I | Total Credits .5 |

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|-----------------------|-----------------------------------|--------------|----------------------|--|--------------|
| SOPHOMORE YEAR | | | | | |
| HIS2113 | Modern West | 3 | EDT3002 (or EDT1001) | Teaching with Technology (or Digital Literacy) | 3 |
| MTH2003 | Elements of Mathematics | 3 | EDU3230 & EDU3231 | Art in Elem & Middle Schls | 2 |
| MUSxxxx | Keyboard | 1 | PSY3020 | Psychology of Learning | 3 |
| PEDxxxx | 2 Phy Ed Activity Courses | 1 | SCI2025 / SCI2105 | General Chemistry I / Geology & Lab | 3 |
| SCI1102 | Physical Science | 3 | SCIxxxx | Science Elective (See Menu Below) | 3 |
| SCI2015 | Botany - Science Minor Elective* | 3 | SCI3003 | Zoology - Science Minor Elective* | 3 |
| THE2001 | Biblical History & Literature III | 3 | | | |
| Total Credits | | 14/17 | Total Credits | | 14/17 |

| Winterim / Field Experience Interim | | |
|-------------------------------------|---------------------------|------------------|
| EDU2401 | Early Field Experience II | Total Credits .5 |

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| JUNIOR YEAR | | | | | |
| EDU3215 | Teaching Religion | 3 | EDU3201 | Children's Literature | 2 |
| EDU3235 | Teaching Social Studies | 1 | EDU3205 | Teaching Language Arts | 2 |
| EDU3246 (EDU3245) | Teaching Mathematics in Pre-K – 8 th Gr | 2 | EDU3210 | Teaching Reading | 4 |
| EDU3348 | Tchg Science in Middle & Sec Schools | 4 | EDU3411 | Literacy Clinical | 1 |
| EDU3424 | Science Clinical | 1 | EDU4302 | Reading in the Content Areas | 3 |
| SCI4025/SCI3025 | Chemistry of Life / Gen Chemistry II | 3 | SCI2001 & SCI2002 | Advanced Biology & Lab | 3 |
| SPE2101 | Educating the Exceptional Learner | 3 | SSC3210 | World Regional Geography | 3 |
| Total Credits | | 17 | Total Credits | | 18 |

| Winterim / Field Experience Interim | | |
|-------------------------------------|-----------------------------|----------|
| EDU3401 | Early Field Experience III | .5 |
| EDU3405 | Individual Field Experience | .5 |
| Total Credits | | 1 |

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|----------------------|---|-----------|----------------------|--------------------------------------|-----------|
| SENIOR YEAR | | | | | |
| EDU3225 | Teaching Phy Ed | 2 | EDU4253 | Student Tchg in Elem & Mdle Schls I | 10 |
| EDU3241 | Teaching Science Concepts | 3 | EDU4260 | Student Tchg in Elem & Mdle Schls II | 6 |
| EDU4210 | C & I in Elem & Middle Schools | 3 | | | |
| ENG3310 | Interpersonal Communication | 3 | | | |
| SCI4025 / SCI3025 | Chemistry of Life / Gen Chemistry II | 3 | | | |
| xxxx | Intercultural Elective (See Menu Below) | 3 | | | |
| Total Credits | | 17 | Total Credits | | 16 |

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| FIFTH YEAR | | | | | |
| EDU4353 | Student Tchg in Sec Schools I | 10 | EDU3220 | Teaching Music | 2 |
| EDU4355 (EDU4352) | Student Tchg in Sec Schools II | 6 | HIS3010 | US History Since 1945 | 3 |
| PSY3031 | Adolescent Psychology | 3 | MUS4201 | Lutheran Worship | 2 |
| | | | PED1301 | Fitness for Life | 1 |
| | | | THE4001 | Lutheran Confessional Writings | 3 |
| | | | SCIxxxx | Science Elective (See Menu Below) | 3 |
| | | | SCI4105 | Science in Our Society | 3 |
| Total Credits | | 19 | Total Credits | | 17 |

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| ADDITIONAL REQUIRED COURSES (taken during summer sessions) | | | | |
| THE3001 | Christian Doctrine I – 3 credits; | THE3002 | Christian Doctrine II – 3 credits | Total Credits 6 |

178 Credits

Intercultural Elective Menu (Choose one)

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| EDU2201 | Introduction to Urban Education Ministry | MUS3213 | Music in World Cultures |
| ENG3010 | American Minority Writers | SSC4201 | Introduction to Minority Cultures |

Science Elective Menu

| | | | | | |
|---------|--------------------|---------|----------------------------------|---------|--|
| MTH2011 | Calculus II | SCI2102 | Physics: Electricity & Magnetism | SCI3103 | Meteorology |
| SCI2020 | Marine Ecology | SCI2103 | Astronomy | SCI3015 | Fundamentals of Ecology |
| SCI2101 | Physics: Mechanics | SCI3102 | Physics: Light & Optics | SCI4102 | Physics: Thermodynamics & Properties of Matter |

*Science Minor Elective Menu: (Choose one)

SCI2015 Botany – offered semester I

SCI3003 Zoology – offered semester II

SCI2020 Marine Ecology – offered winterim