# Bemidji State University

**Professional Education Plan of Study**

Licenses: *Chemistry (9-12) and Middle Level Science (5-8)*

**Name:** **ID Number:**

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| ***I. Complete all of the following Professional Education Standards of Effective Practice (SEP) Courses.*** | | | | |
| *BSU Course ID and Name* | ***ALL STUDENTS*** | | *Complete this section* ***ONLY*** *if using a course from another school\** | |
| ***Semester &Year*** | ***Grade*** | *Course ID and Name* | *Where was this course taken?* |
|  | | | | |
| ED 3100 Intro. to the Foundations of Education (3 cr.)  *\*25 hours of field experience\** |  |  |  |  |
| ED 3110 Educational Psychology (3 credits) |  |  |  |  |
| ED 3140 Human Relations in Education (3 credits) |  |  |  |  |
| ED 3350 Pedagogy: Planning for Instruction (3 credits)  *\*25 hours of field experience\** |  |  |  |  |
| ED 3780 Adaptation and Management (3 credits) |  |  |  |  |
| HLTH 3400 Health & Drugs in Society (2 credits) |  |  |  |  |
| ED 4799 The Professional Teacher (1 credit) |  |  |  |  |
| ED 4737 Content Area Reading (3 credits)  *\*25 hours of field experience\** |  |  |  |  |
| ED 3410 Secondary Science Methods (4 credits) *\*25 hours of field experience\** |  |  |  |  |
| ED 4830 Student Teaching, Secondary (7 credits) |  |  |  |  |
| ED 4840 Student Teaching, Special Fields (5 credits) |  |  |  |  |

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| ***II. Complete the following Middle Level Science Content Courses.*** | | | | |
| *BSU Course ID and Name* | ***ALL STUDENTS*** | | *Complete this section* ***ONLY*** *if using a course from another school\** | |
| ***Semester &Year*** | ***Grade*** | *Course ID and Name* | *Where was this course taken?* |
|  | | | | |
| BIOL 1110 Human Biology (4 credits) **OR**  BIOL 1400 Cellular Principles (4 credits) |  |  |  |  |
| BIOL 1120 Gen Bio/Evol & Ecology (3 credits)**OR**  BIOL 1500 Diversity of Life (4 credits) |  |  |  |  |
| CHEM 2211 Principles of Chem I (4 credits) **OR**  CHEM 1111 Gen Chem I (4 credits) |  |  |  |  |
| CHEM 2212 Principles of Chem II (4 credits) **OR**  CHEM 1112 Gen Chem II (4 credits) |  |  |  |  |
| GEOL 1110 Physical Geology (4 credits) |  |  |  |  |
| SCI 3100 Integrative Science for Teachers (4 credits) |  |  |  |  |

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| ***III. Complete all of the following Chemistry Content Courses.*** | | | | |
| *BSU Course ID and Name* | ***ALL STUDENTS*** | | *Complete this section* ***ONLY*** *if using a course from another school\** | |
| ***Semester &Year*** | ***Grade*** | *Course ID and Name* | *Where was this course taken?* |
|  | | | | |
| CHEM 2211 Principles of Chem I (4 credits)  *Also meets the Middle Level Science Requirement* |  |  |  |  |
| CHEM 2212 Principles of Chem II (4 credits)  *Also meets the Middle Level Science Requirement* |  |  |  |  |
| CHEM 3110 Lab Management and Safety (2 credits) |  |  |  |  |
| CHEM 3311 Organic Chemistry I (3 credits) |  |  |  |  |
| CHEM 3312 Organic Chemistry II (3 credits) |  |  |  |  |
| CHEM 3371 Organic Chemistry Laboratory I (1 credit) |  |  |  |  |
| CHEM 3372 Organic Chemistry Laboratory II (1 credit) |  |  |  |  |
| CHEM 3507 Analytical Chemistry (3 credits) |  |  |  |  |
| CHEM 3570 Analytical Chemistry Laboratory (1 credit) |  |  |  |  |
| CHEM 3980 Research (1 credit) |  |  |  |  |

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| ***IV. Required Chemistry Elective – SELECT ONE OF THE FOLLOWING*** | | | | |
| *BSU Course ID and Name* | ***ALL STUDENTS*** | | *Complete this section* ***ONLY*** *if using a course from another school\** | |
| ***Semester &Year*** | ***Grade*** | *Course ID and Name* | *Where was this course taken?* |
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| CHEM 4411 Biochemistry (3 credits) **OR**  CHEM 4811 Advanced Inorganic Chemistry I (3 cr.) |  |  |  |  |

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| ***If there are any gaps in your plan of study (other than student teaching), please indicate when and how you will fill the missing coursework/testing requirement(s).*** |
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***\*Please note: If you are using a course from another school, BSU will need official transcripts on file for all relevant institutions.***

***Final Plan of Study Approved by Program Leader: Date:***