# Bemidji State University

**Professional Education Plan of Study**

License: *Math Education (5-12)*

**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?* |
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| 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 3440 Math Methods in the Sec. School (4 credits)  *\*25 hours of field experience\** |  |  |  |  |
| ED 4830 Student Teaching, Secondary (12 credits)  *\*16 weeks of full-time student teaching\** |  |  |  |  |

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| ***II. Complete the following Math 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?* |
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| MATH 2210 Discrete Mathematics (4 credits) |  |  |  |  |
| MATH 2471 Calculus I (5 credits) |  |  |  |  |
| MATH 2472 Calculus II (5 credits) |  |  |  |  |
| MATH 2480 Multivariable Calculus (4 credits) |  |  |  |  |
| MATH 3310 Linear Algebra (4 credits) |  |  |  |  |
| MATH 3065 Math Foundations of Algebra (4 cr.)  *\*10 hours of field experience\** |  |  |  |  |
| MATH 3560 Classical & Modern Geometry (3 credits) |  |  |  |  |

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| ***SELECT ONE OF THE FOLLOWING*** | | | | |
| MATH 3067 Data Inv, Prob, and Statistics (4 cr.) **OR**  STAT 2610 Applied Statistics (4 credits) **OR**  STAT 3631 Probability and Statistics I (4 credits) |  |  |  |  |

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| ***SELECT ONE OF THE FOLLOWING*** | | | | |
| MATH 4350 Abstract Algebra (3 credits) **OR**  MATH 4371 Modern Algebra (3 credits) |  |  |  |  |

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| ***III. Required Concentration, Second Education Major or Middle Level Endorsement***  ***COMPLETE ONE OF THE FOLLOWING OPTIONS (A-F)***  *Note: If taken under II above, MATH 3067 or STAT 3631 may also be used to meet this requirement.* | | | | |
| *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?* |
| ***Option A: Applied Mathematics/Calculus Concentration – COMPLETE TWO OF THE FOLLOWING*** | | | | |
| MATH 2490 Differential Equations (4 credits) |  |  |  |  |
| MATH 3710 Mathematical Modeling (3 credits) |  |  |  |  |
| MATH 3720 Numerical Methods (3 credits) |  |  |  |  |
| MATH 4410 Introduction to Analysis (3 credits) |  |  |  |  |
| MATH 4760 Topics in Applied Mathematics (3 credits) |  |  |  |  |
| ***Option B: Computer Science Concentration – COMPLETE TWO OF THE FOLLOWING*** | | | | |
| CS 2270 Introduction to Web Programming (3 credits) |  |  |  |  |
| CS 2321 Computer Science I (4 credits) |  |  |  |  |
| CS 2322 Computer Science II (4 credits) |  |  |  |  |
| ***Option C: Middle Level Mathematics Concentration – COMPLETE TWO OF THE FOLLOWING*** | | | | |
| MATH 3064 Number Concepts (4 credits) |  |  |  |  |
| MATH 3066 Geometry and Technology (4 cr.) |  |  |  |  |
| MATH 3067 Data Inv, Prob, and Statistics (4 cr.) |  |  |  |  |
| ***Option D: Statistics Concentration – COMPLETE TWO OF THE FOLLOWING*** | | | | |
| STAT 3610 Time Series Analysis (3 credits) |  |  |  |  |
| STAT 3631 Probability and Statistics I (4 credits) |  |  |  |  |
| STAT 3632 Probability and Statistics II (3 credits) |  |  |  |  |
| ***Option E: Complete a Secondary Education Major other than Mathematics*** | | | | |
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| ***Option F: Complete a Middle Level Endorsement other than Mathematics*** | | | | |
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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 Certification Officer: Date:***