



Winona State University
Four-Year Program Map

Created on 8/17/2017
Effective Fall 2016

Program: **Mathematics 5-12 Education**
Emphasis (optional):

| Fall Semester | | | | Spring Semester | | |
|---|--|-----------------|--------------|--|-----------------|--------------|
| | Course | Requirement Met | SH | Course | Requirement Met | SH |
| Year 1 | ENG 111 College Reading and Writing or CMST 191 or 192 | GE Goal 1 | 3-4 | CMST 191 Introduction to Public Speaking or ENG 111 | GE Goal 1 | 3-4 |
| | MATH 212 Calculus I | GE Goal 4/Major | 4 | MATH 213 Calculus II | Major/GE Goal 4 | 4 |
| | MATH 247 Discrete Mathemeatics | Major | 3 | MATH 242 Linear Algebra | Major | 4 |
| | HERS 204 Personal & Community Health | Major/PDW | 3 | HIST 151 US History since 1865/SOC 150 Intro to Scoiology | GE Goal 5/7 | 3 |
| | OR 100 | Recommended | 1 | General Education Course | GE Goal 9 | 3 |
| <i>NOTE: Pass MTLE 1 Tests</i> | | | | <i>NOTE:CMST 191 and ENG 111 cannot be taken during the semester in which you apply to the Education Program; you must take it at least one semester before you apply and receive a grade of B or above.</i> | | |
| First-Year Fall Semester Credit Hour Total | | | 13-15 | First-Year Spring Semester Credit Hour Total | | 17-18 |
| Year 2 | MATH 327 Foundations of Mathematics | Major/WI | 4 | STAT 310 Intermediate Statistics | Major | 3 |
| | MATH 312 Multivariable Calculus | Major/CA | 4 | MATH 337 Probability | Major | 3 |
| | STAT 210 Statistics | Major/GE Goal 4 | 3 | EDFD 401 Human Development and Learning: K-12 & 5-12 | Major | 2 |
| | HIST 120 Western Civilization to 1500 | GE Goal 5/6 | 3 | EDFD 461 Multicultural Youth, Children, & Families: Part I | Major | 2 |
| | CHEM 100 How Things Work: through a Chemical Lens | GE Goal 3/8 | 3 | SPED 300 Children and Youth with Exceptionalities* | Major | 3 |
| | | | | General Education Course: Fine Arts | GE Goal 6 | 3 |
| <i>NOTE: Apply for admission to Department of Education</i> | | | | <i>NOTE:*Not required for admission to the Department of Education, but it is required for the completion of the program. Cannot register until you have completed 30 (S.H.)</i> | | |
| Second-Year Fall Semester Credit Hour Total | | | 17 | Second-Year Spring Semester Credit Hour Total | | 16 |
| Year 3 | EDFD 441 Curriculum, Instruction, and Assessment | Major/CA | 3 | EDUC 429 Secondary Reading and Teaching Strategies | Major | 3 |
| | EDFD 421 Classroom Management: K-12 and 5-12 | Major | 1 | EDFD 449 Middle Level Philosophy, Organization and Interdis | Major/WI | 3 |
| | MATH 204 Technology-Based Geometry | Major/CA | 3 | MATH 308 Modern Geometry | Major/CA | 4 |
| | MATH 304 Middle School Math Methods | Major | 3 | MATH 307 History of Mathemematics | Major/OI | 3 |
| | CHEM 107 Chemistry in Our World with Lab | GE Goal 3/10 | 4 | MATH 347 Number Theory | Major/CA | 3 |
| | | | | | | |
| <i>NOTE: A minimun GPA of 2.75 is required in this major</i> | | | | <i>NOTE: Apply for student teaching</i> | | |
| Third-Year Fall Semester Credit Hour Total | | | 14 | Third-Year Spring Semester Credit Hour Total | | 16 |
| Year 4 | MATH 117 Precalculus with Modeling** | Major | 4 | EDST 465 Student Teaching - Senior High School K-12 Specia | Major/OI | 12 |
| | EDFD 459 The Professional Educator | Major/WI | 3 | | | |
| | EDFD 462 Multicultural Youth, Children, & Families Part II | Major | 1 | | | |
| | HIST 150 United States History to 1865 | GE Goal 5/6 | 3 | | | |
| | MATH 306 Teaching Mathematics in the Secondary Schools | Major | 3 | | | |
| | | | | | | |
| <i>NOTE: Take MTLE 2 Content and Pedagogy in order to qualify for licensure</i> | | | | <i>NOTE:</i> | | |
| Fourth-Year Fall Semester Credit Hour Total | | | 14 | Fourth-Year Spring Semester Credit Hour Total | | 12 |

Total Credit Hours (SH): 120