

MATHEMATICS, TEACHER CERTIFICATION

Summary of Graduation Requirements

Subject Area	Credits
General Education Core (https://catalog.nsu.edu/undergraduate/academic-information/general-education-core-program/)	42
Major Requirements	43
Professional Educational Requirements	18
Student Teaching/Field Experiences	12
Restricted & General Electives	5
Total Credit Hours	120

Curriculum

Course	Title	Credits
First Year		
BIO 100 & 100L	Biological Science and Biological Science Lab	4
CSC 170	Computer Programming I	3
CSC 170L	Computer Programming Laboratory I	1
ENG 101	College English I	3
ENG 102	College English II	3
HED 100	Personal and Community Health	2
MTH 184	Calculus I	4
MTH 251	Calculus II	4
PED 100	Fundamentals of Fitness for Life	1
PHY 152 & 152L	General Physics and General Physics Laboratory I	4
SEM 101 & SEM 102	Spartan Seminar 101 and Spartan Seminar 102	2
Credits		31
Second Year		
SEM 201	Spartan Seminar 201	1
ENG 203 or ENG 303	Advanced Communication Skills or Professional & Technical Writing	3
ENG 285	Public Speaking	3
XXX XXX	Cultural Perspectives (Social Science) ¹	3
XXX XXX	Humanities ²	3
MTH 242	History of Mathematics	3
MTH 252	Calculus III	4
MTH 300	Linear Algebra	3
MTH 372	Differential Equations	3
EDU 201	Foundations of Education	3
XXX XXX	Social Science ³	3
Credits		32
Third Year		
XXX XXX	Cultural Perspectives (Humanities) ⁴	3
MTH 250	Elementary Statistics Concepts	3
MTH 310	Discrete Mathematics	3
MTH 311	Modern Geometry I	3

MTH 351	Probability & Statistics I	3
MTH 352	Probability & Statistics II	3
MTH 331	Algebraic Structures	3
EDU 381	Classroom and Behavior Management	3
SED 384	Curriculum & Instructional Procedures in Mathematics	3
SED 405	Reading in the Content Area	3
Credits		30

Fourth Year

XXX XXX	Mathematics Elective ⁵	3
MTH 496 & MTH 497	Mathematics Seminar I and Mathematics Seminar II	4
SED 420	Educational Technology	3
PSY 228 or EDU 486	Developmental Psychology or Human Growth and Development	3
SED 499	Directed Teaching (internship)	12
XXX XXX	General Elective	2
Credits		27
Total Credits		120

- ¹ Cultural Perspectives (Social Science)
Note: Students will take 3 hours of Cultural Perspectives (Social Science) as indicated: HIS 335 African-American History, HIS 336 African-American History Since 1865, HIS 371 Modern African History & Cultures 1600-PRESENT, HRP 320 African American Health
- ² Humanities
Note: Students will take 3 hours of humanities as indicated: ENG 207 Introduction to World Literature, FIA 201 Basic Art Appreciation, MUS 301 Music Appreciation
- ³ Social Sciences
Note: Students will take 3 hours of Social sciences as indicated: SOC 101 Introduction to the Social Sciences, HIS 101 History of World Societies II, HIS 103 United States History Since 1865, BUS 175 Introduction to Business & Entrepreneurship, ECN 200 Basic Principles of Economics
- ⁴ Cultural Perspectives (Humanities)
Note: Students will take 3 hours of Cultural Perspectives (Humanities) as indicated: ENG 383 African-American Literature, 1940-PRESENT, MUS 234 African-American Music
- ⁵ Mathematics Electives
MTH 401 Numeric Analysis I, MTH 431 Abstract Algebra, MTH 473 Real Analysis

Teacher Licensure Endorsement in Mathematics

Students wishing to pursue a career in teaching must take the following steps:

1. Follow the curriculum for the liberal arts degree in Mathematics.
2. Use the elective hours for professional courses.
3. See the academic advisor in their major department.
4. See the academic advisor in the Department of Secondary Education and School Leadership in the Bozeman Education Building.
5. Take the PRAXIS test and make a passing score. (See the School of Education PRAXIS coordinator)

2 Mathematics, Teacher Certification

6. Take the following professional education courses (18 semester hours) plus student teaching (12 semester hours).

Code	Title	Credits
EDU 201	Foundations of Education	3
EDU 381	Classroom and Behavior Management	3
PSY 228/ EDU 486	Developmental Psychology	3
SED 384	Curriculum & Instructional Procedures in Mathematics	3
SED 405	Reading in the Content Area	3
SED 420	Educational Technology	3