Name: _____

MATHEMATICS (Teacher Certification Track), B.S.

42 courses of three or more credits, 3 one-credit PE courses, and 3 one-credit Field Experiences

GENERAL EDUCATION CORE

BASIC REQUIREMENTS (2 courses and 3 one-credit PE courses)

Composition and Rhetoric
- ☐ EN 103 Composition and Rhetoric I
- ☐ EN 104 Composition and Rhetoric II

Physical Education Courses
- ☐ PE 100
- ☐ PE ____
- ☐ PE ____

MODES OF THINKING (3 courses)

Literature (Select one)
- ☐ EN 110, EN 112, EN 115

Mathematics **(Satisfied by Major)**

Natural Science (Select one)
- ☐ BI 209, BI 210, BI 211, BI 242, CH 209, PH 209

Philosophy
- ☐ PL 109

Social Sciences
- ☐ ED 209 (**Required by STEP**)

CULTURAL LITERACY (6 courses)

Humanities I and II. *Preferably* select a set (e.g., HI 201/202). However, a combination (e.g., PO 201 + HI 214) is acceptable. ***HI 201-202 recommended.***
- ☐ Hum. I: HI 201, PO 201, HI 213
- ☐ Hum. II: HI 202, PO 202, HI 214, HI 262

Humanities III: Great Works of Art & Music (See Master Schedule of Day Classes;
- ☐ ___ ____

Humanities IV: Great Works of Literature (See Master Schedule of Day Classes)
- ☐ ___ ____

Foreign Language/World Cultures (Select either two of the same language, any two WC, or one WC and one approved course with international study)
- ☐ ___ ____
- ☐ ___ ____

CHRISTIAN VALUES AND THEOLOGY (3 courses)

Catholic Theology
- ☐ TH 109

Intermediate Theology (200/300 level TH)
- ☐ TH ____

Values Seminar (See Master Schedule of Day Classes)
- ☐ ___ ____

MAJOR – Mathematics

Secondary Teacher Certification Track

Core Courses (12):
- ☐ MA 121: Calculus I
- ☐ MA 122: Calculus II
- ☐ MA 222: Statistical Analysis with R
- ☐ MA 223: Calculus III
- ☐ MA 224: Calculus IV
- ☐ MA 231: Discrete Mathematics
- ☐ MA 243: Differential Equations
- ☐ MA 301: Probability Theory
- ☐ MA 331: Linear Algebra
- ☐ MA 445: Advanced Calculus
    or MA 471: Abstract Algebra
- ☐ MA 453: Senior Coordinating Seminar
- ☐ CS 115: Introduction to Python

Track Specific Courses (4):
- ☐ MA 351: Fundamentals of Modern Geometry
- ☐ MA 445: Advanced Calculus <u>or</u> MA 471: Abstract Algebra (whichever was not taken as part of the core above)
- ☐ ED412: Teaching Mathematics in Secondary Schools
- ☐ Elective: any one MA course at 300 level or above

Education

☐ ED 109	☐ ED 3801*
☐ ED 205	☐ ED 3802*
☐ ED 218 (or 216)	☐ ED 405
☐ ED 2801*	☐ ED 412
☐ ED 330	☐ ED 450
☐ ED 364	☐ ED 452
☐ ED 366	☐ ED 454
☐ ED 373	☐ ED 456

*One-credit course

OTHER REQUIREMENTS

PPST:
- ☐ Reading (0710)   ☐ Writing (0730)
- ☐ Mathematics (0720)

- ☐ Mathematics: Content Knowledge (0061)
    (graphing calculator required)
- ☐ SP-164 Criminal Record Check
- ☐ CY-113 Child Abuse History Clearance
- ☐ FBI Federal Criminal History Check
- ☐ Tuberculin (TB) Test

For the most up-to-date record of progress toward completion of degree requirements, students should use the Academic Evaluation tool, which is listed under the Academic Planning heading in WebAdvisor.

STEP CERTIFICATION
Typical Program: MATHEMATICS MAJOR-Teacher Certification Track (B. S.)

First Year

Fall Semester
Communication & Thought I (EN 103)
Philosophical Thinking MOT (PL 109)
Foreign Language/World Cultures
Introduction to Python (CS 115)
Calculus I (MA 121)
Lifetime Fitness and Wellness (PE 100) 1 (credit)

Spring Semester
Communication & Thought II (EN 104)
Catholic Theology (TH 109)
Foreign Language/World Cultures
Calculus II (MA 122)
The Educative Process (ED 109)
Physical Education Activity (1 credit)

Second Year

Calculus III (MA 223)
Linear Algebra (MA 331)
Humanities 1 - HI 201
Literature MOT
Cognition and Learning (ED 209)
STEP Clinical Field Experience 1 (ED 2801) (*1 credit)*
Physical Education Activity (1 credit)

Calculus IV (MA 224)
Discrete Math (MA 231)
Humanities 2 - HI 202
Introduction to Exceptionality (ED 218) or (ED 216)
Natural Science MOT
Technology for Educators (ED 205)
(overload)+

Third Year

Probability & Statistics I (MA 301)
Fundamentals of Modern Geometry (MA 351)
Mathematics Elective *
Humanities 3
Intermediate Theology
Literacy Interventions, Gr. 4-12 (ED 366)
STEP Clinical Field Experience 2 (ED 3801) *1 credit*
(overload)+

Differential Equations (MA 243)
Statistical Analysis with R (MA 222)
Introduction to Analysis (MA 445)
Humanities 4
Values Seminar (ED 475 recommended)
Curriculum & Instruction I (ED 330)
STEP Clinical field Experience (ED 3802) *1 credit*
(overload) +

Fourth Year

Senior Coordinating Seminar (MA 453)
Abstract Algebra (MA 471)
The Inclusive Classroom (ED 364)
Teaching English Learners (ED 373)
Advanced Teaching and Assessment (ED 405)
Teaching Mathematics in the Secondary Schools (ED 412)
(overload)+

Student Teaching +
ED 450 Planning of Instruction
ED 452 Classroom Management
ED 454 Instructional Delivery
ED 456 Professionalism
No other courses may be taken during student teaching.

+*Due to student teaching and certification requirements, students will need to either overload four semesters, or take four summer school classes. No other courses may be taken during student teaching.*

Dr. Katrin Blamey, Chair of Education   Effective fall, 2020
A.   Koefer, Director of the Academic Resource Center