<u>MATHEMATICS, B.S.</u> <u>4 + 1 Teacher Certification ME.D. PROGRAM</u>

Minimum of 121 credits and Three 1-credit PE courses for B.S. in Mathematics (Teacher Certification Track) 22 Credits for M.ED. beyond Mathematics B.S. Teacher Certification Track

GENERAL EDUCATION CORE

BASIC REQUIREMENTS

(6 credits and three 1-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 (9 credits)

Literature (Select one)

EN 110, EN 112, EN 115
Mathematics (Satisfied by Major)
Natural Science
BI 209, BI 210, BI 211, BI 242, CH 209, PH 209
Philosophy
PL 109
Social Sciences
ED 209 (Required by STEP)

CULTURAL LITERACY (18 credits)

Humanities $\overline{IV: G}$ reat Works of Literature

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 (9 credits)

Catholic Theology

□ TH 109 Intermediate Theology (200/300 level TH) □ TH

Values Seminar

□ ____ ___

MAJOR (49 credits)

- □ MA 121: Calculus I
- $\hfill\square$ MA 122: Calculus II
- $\hfill\square$ 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 <u>OR</u> MA 471: Abstract Algebra
- □ MA 453: Senior Coordinating Seminar
- □ CS 115: Introduction to Python

STEP SPECIFIC COURSES :

- □ 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)
- □ Elective: any one MA course at 300 level or above
- □ MA 387: Cryptology

REQUIRED EDUCATION COURSES (15

credits)

- □ ED 109: The Educative Process
- □ ED 209: Cognition and learning
- □ ED 218: Introduction to Exceptionality
- □ ED 366: Literacy Interventions 4-12
- □ ED 373: Teaching English Learners

FREE ELECTIVES (15 credits)



Admission Requirements into Graduate M.ED. Phase:

- Satisfactory completion of ED 109, ED 209, ED 218, ED 366, and ED 373
- Cumulative GPA of 3.0
- Passing score on PRAXIS Mathematics test

DE SALES UNIVERSITY Example Plan: Mathematics <u>(Teacher Certification)</u>, B.S.

First Year

Fall Semester (16 credits and 1-credit PE)

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

Spring Semester (15 credits and 1-credit PE)

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

Second Year

Fall Semester (15 credits and 1-credit PE)

Calculus III (MA 223) Linear Algebra (MA 331) Humanities I - HI 201 recommended Literature MOT Cognition and Learning (ED 209) Physical Education Activity

Spring Semester (15 credits)

Calculus IV (MA 224) Discrete Math (MA 231) Humanities II - HI 202 recommended Introduction to Exceptionality (ED 218) Natural Science MOT

Third Year

Fall Semester (15 credits)

Probability & Statistics I (MA 301) Fundamentals of Modern Geometry (MA 351) Humanities III Intermediate Theology Literacy Interventions, Gr. 4-12 (ED 366)

Spring Semester (15 credits)

Differential Equations (MA 243) Statistical Analysis with R (MA 222) Humanities IV Values Seminar (ED 475 recommended) Cryptology (MA 387)

Fourth Year *

Fall Semester (15 credits)

Senior Coordinating Seminar (MA 453) Abstract Algebra (MA 471) Teaching English Learners (ED 373) Free Elective Free Elective

Spring Semester (15 credits)

Introduction to Analysis (MA 445) Mathematics Elective Free Elective Free Elective Free Elective

* Apply to the M.Ed. program

Dr. Katrin Blamey, Chair of Education Koefer, Director of the Academic Success Center Effective Fall, 2022

DSU UNIVERSITY Mathematics (Teacher Certification), GRADUATE M.ED. PHASE **

GRADUATE PHASE OF PROGRAM – Additional Tuition Based on Current Rates

Summer Semester

SC518 Middle and Secondary Learner and Curriculum (3 credits)

SC519 Secondary Education Principles and Pedagogy (3 credits)

SC524 Secondary Education in Subject Area (3 credits)

SC522 Secondary Education Clinical Field Experience 1 (1 credit)

* Intern Teaching Certificate issued and students apply for Full-Time Teaching Position

Fall Semester

SC525 Secondary Education Clinical Field 2 (while employed) - (3 credits)

SE522 Remedial Techniques in Reading and Writing - (3 credits)

Spring Semester

EE551 Student Teaching (while employed) - (3 credits)

* Instructional I certification issued

Summer Semester

ED600 Research Capstone - (3 credits)

* M.Ed. complete