

Name: _____

MATHEMATICS (Graduate School Preparation Track), B.S.

40 courses of three or more credits and 3 one-credit PE courses

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 (4 courses)

- Literature (Select one)
- EN 110, EN 112, EN 115
- Mathematics (**Satisfied by Major – MA 121**)
- Natural Science (Select one)
- BI 209, BI 210, BI 211, BI 242, CH 209, PH 209
- Philosophy
- PL 109
- Social Sciences (Select one)
- CJ 109, EC 209, EC 112, PO 103, PO 109, PS 109, or SO 109

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.
- 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

Graduate School Preparation Track

Core Courses: (12 courses)

- 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 453: Senior Coordinating Seminar
- CS 115: Introduction to Python
- MA 445: Advanced Calculus **or** MA 471: Abstract Algebra

Track Specific Courses: (4 courses)

- MA 351: Fundamentals of Modern Geometry
- MA 445: Advanced Calculus **or** MA 471: Abstract Algebra (whichever was not taken as part of the core above)

Two electives from the following: any MA course at 300 or 400 level

- _____
- _____

MINOR

(6 courses)

- _____
- _____
- _____
- _____

ELECTIVES

(As needed to complete 40-course req.)

- _____
- _____
- _____
- _____
- _____
- _____

Ann Koefer, Director of Academic Resource Center
Effective fall, 2020

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.

DE SALES UNIVERSITY

Typical Program: MATHEMATICS MAJOR (Graduate School Preparation (B. S.))

FALL SEMESTER

SPRING SEMESTER

FIRST YEAR

Calculus I (MA 121)
Introduction to Python (CS115)
Composition and Rhetoric I (EN 103)
Philosophy MOT (PL 109)
Foreign Language/World Cultures
Lifetime Fitness and Wellness (PE 100)

Calculus II (MA 122)
Statistical Analysis with R (MA222)
Composition and Rhetoric II (EN 104)
Social Science MOT
Foreign Language/World Cultures
Physical Education (Activity)

SECOND YEAR

Calculus III (MA 223)
Differential Equations (MA243)
Humanities 1
Catholic Theology (TH 109)
Free Elective
Physical Education (Activity)

Calculus IV (MA 224)
Discrete Mathematics (MA231)
Humanities 2
Literature MOT
Free Elective

THIRD YEAR

Probability Theory (MA 301)
Linear Algebra (MA 331)
Fundamentals of Modern Geometry (MA 351)
Humanities 3
Intermediate Theology

Advanced Calculus (MA445)
Mathematics Elective *
Humanities 4
Natural Science MOT
Free Elective

FOURTH YEAR

Abstract Algebra (MA 471)
Senior Coordinating Seminar (MA 453)
Values Seminar
Free Elective
Free Elective

Mathematics Elective *
Free Elective
Free Elective
Free Elective
Free Elective

* Choose two electives from the following: any MA course at 300 or 400 level

Students pursuing Secondary Education Teacher Certification should follow the STEP Mathematics Graduation Requirement Forms.