

Name: _____

BASED ON CREDITS

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

121 credits and Three 1-credit PE courses

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 (12 credits)

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, CM 130, EC 209, EC 112, HCM 230, PO 103, PO 109, PS 109, SO 109

CULTURAL LITERACY (18 credits)

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

- _____

Humanities IV: Great 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 (52 credits)

- 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 351: Fundamentals of Modern Geometry
- MA 445: Advanced Calculus
- MA 453: Senior Coordinating Seminar
- MA 471: Abstract Algebra
- CS 115: Introduction to Python – 4 credits
- CS 260: Databases and Data Visualization

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

- _____
- _____

FREE ELECTIVES (24 credits)

- | | |
|--------------------------------|--------------------------------|
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| <input type="checkbox"/> _____ | <input type="checkbox"/> _____ |
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OPTIONAL MINOR

- | | |
|--------------------------------|--------------------------------|
| <input type="checkbox"/> _____ | <input type="checkbox"/> _____ |
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| <input type="checkbox"/> _____ | <input type="checkbox"/> _____ |

DE SALES UNIVERSITY

Example Plan: MATHEMATICS MAJOR (Graduate School Preparation Track), B. S.

FIRST YEAR

FALL SEMESTER (16 credits and 1-credit PE)

Calculus I (MA 121)
Introduction to Python (CS 115) – 4 credits
Composition and Rhetoric I (EN 103)
Philosophy MOT (PL 109)
Foreign Language/World Cultures
Lifetime Fitness and Wellness (PE 100)

SPRING SEMESTER (15 credits and 1-credit PE)

Calculus II (MA 122)
Statistical Analysis with R (MA 222)
Composition and Rhetoric II (EN 104)
Social Science MOT
Foreign Language/World Cultures
Physical Education (Activity)

SECOND YEAR

FALL SEMESTER (15 credits and 1-credit PE)

Calculus III (MA 223)
Differential Equations (MA 243)
Humanities I
Catholic Theology (TH 109)
Free Elective
Physical Education (Activity)

SPRING SEMESTER (15 credits)

Calculus IV (MA 224)
Discrete Mathematics (MA 231)
Humanities II
Literature MOT
Free Elective

THIRD YEAR

FALL SEMESTER (15 credits)

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

SPRING SEMESTER (15 credits)

Advanced Calculus (MA 445)
Mathematics Elective *
Humanities IV
Natural Science MOT
Free Elective

FOURTH YEAR

FALL SEMESTER (15 credits)

Abstract Algebra (MA 471)
Senior Coordinating Seminar (MA 453)
Databases and Data Visualizations (CS 260)
Values Seminar
Free Elective

SPRING SEMESTER (15 credits)

Mathematics Elective *
Free Elective
Free Elective
Free Elective
Free Elective

* Choose two mathematics 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.