

Name: _____

BASED ON CREDITS

MATHEMATICS (Actuarial Science 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 (9 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: **Satisfied by Major - EC 209**

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 311: Actuarial Mathematics – P
- MA 312: Actuarial Mathematics - FM
- MA 331: Linear Algebra
- MA 453: Senior Coordinating Seminar
- MA 445: Advanced Calculus **OR**
MA 471: Abstract Algebra
- CS 115: Introduction to Python - 4 credits
- CS 260: Databases and Data Visualization
- EC 209: Macroeconomics
- EC 210: Microeconomics

FREE ELECTIVES (27 credits)

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

OPTIONAL MINOR

- _____ _____ _____
- _____ _____ _____

DE SALES UNIVERSITY
Example Plan: MATHEMATICS (Actuarial Science Track), B. S.

FIRST YEAR

FALL SEMESTER (16 credits and 1-credit PE)

Calculus I (MA 121)
Introduction to Python (CS115) – 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)
Macroeconomics (EC 209)
Foreign Language/World Cultures
Physical Education (Activity)

SECOND YEAR

FALL SEMESTER (15 credits and 1-credit PE)

Calculus III (MA 223)
Probability Theory (MA 301)
Catholic Theology (TH 109)
Humanities I
Free Elective
Physical Education (Activity)

SPRING SEMESTER (15 credits)

Calculus IV (MA 224)
Discrete Mathematics (MA 231)
Actuarial Mathematics – P (MA 311)
Humanities II
Literature MOT

THIRD YEAR

FALL SEMESTER (15 credits)

Linear Algebra (MA 331)
Advanced Calculus (MA 445)
OR Abstract Algebra (MA 471)
Humanities III
Intermediate Theology
Principles of Microeconomics (EC 210)

SPRING SEMESTER (15 credits)

Actuarial Mathematics - FM (MA 312)
Differential Equations (MA 243)
Databases and Data Visualization (CS 260)
Humanities IV
Natural Science MOT

FOURTH YEAR

FALL SEMESTER (15 credits)

Senior Coordinating Seminar (MA 453)
Free Elective
Free Elective
Free Elective
Free Elective

SPRING SEMESTER (15 credits)

Values Seminar
Free Elective
Free Elective
Free Elective
Free Elective

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