## Calculus Sequence - 8 Credits

Majors must take one calculus sequenceMA-143 Differential Calculus (4 cr)MA-144 Integral Calculus (4 cr) Or
$\square$ MA-123 Elementary Calculus IMA-124 Elementary Calculus IIMA-125 Intermediate Calculus (2 cr)

## Additional Calculus Courses - 6-8 Credits

Choose at least two of the following. Majors must take at least 14 credits total in Calculus.MA-273 Multivariable Calculus I (4 cr)MA-274 Multivariable Calculus II (4 cr)MA-375 Advanced CalculusMA-377 Ordinary Differential Equations or MA-379 Differential Equations for Engineers (4 cr)

## Required Courses - 16 Credits

Each of the following courses must be takenMA-247 Introductory Linear AlgebraMA-248 Math Tech Lab (1 cr)MA-250 Transitions to Advanced MathematicsMA-350 College Geometry
$\square$ MA-400 History of MathematicsMA-441 Modern Algebra

## Capstone Experience - 0 Credits

To be satisfied in an upper division MA course during the student's senior year.

## Statistics, Probability, or Discrete Math - 3 Credits

Take one of the following courses
MA-132 Statistics for the Life Sciences
$\square$ MA-212 Elementary Statistics
$\square$ MA-222 Intermediate Statistics
MA-316 Intermediate Discrete Mathematics
$\square$ MA-335 Probability Theory
MA-336 Mathematical Statistics
$\square$ MA-337 Statistical Computing with R
$\square$ MA-338 Regression AnalysisMA-389 Topics in Statistics

## Mathematics Elective - 3-4 Credits

Take one of these courses. A course cannot be counted as an elective course and towards another major requirement.

MA-316 Intermediate Discrete MathematicsMA-335 Probability TheoryMA-336 Mathematical StatisticsMA-337 Statistical Computing with RMA-338 Regression AnalysisMA-347 Topics in Linear AlgebraMA-350 College Geometry
MA-375 Advanced CalculusMA-377 Ordinary Differential Equations
or
MA-379 Differential Equations for Engineers (4 cr)MA-382 Mathematical Modeling
MA-385 Topics in Applied Mathematics
$\square$ MA-387 Topics in Mathematics
MA-389 Topics in Statistics
$\square$ MA-399 Independent Study
MA-417 Introduction to Topology
MA-441 Modern Algebra
MA-442 Topics in Modern Algebra
MA-467 Functions of Complex Variables
$\square$ MA-481 Numerical Analysis

## Composition - 3 credits

Additional Composition course(s) may be required based on placement testingCM-102 English Composition II
Core Requirement 1.1 - select one $3-4$ credit course SLO 1.1: Problem solve and analyze quantitative information based on placement testing
$\square$ MA-123 Elementary Calculus I
$\square$ MA-124 Elementary Calculus II
$\square$ MA-143 Differential Calculus
$\square$ MA-144 Integral Calculus
$\square$ MA-273 Multivariable Calculus (4 cr)
$\square$ MA-274 Multivariable Calculus (4 cr)

## Core Requirement 2.1 - select one from each field SLO 2.1: Critically think about ideas and events that have shaped the humanistic tradition

## Literature - 3 credits

EL-201 English Lit IEL-205 Survey of World LitEL-202 English Lit IIEL-206 Poetry$\square$ EL-203 American Lit I $\square$ EL-207 Drama
$\square$ EL-204 American Lit II $\square$ EL-208 Fiction

## $\square$ History - Any 100 or 200 level course, 3 credits

## $\square$ Social Sciences - 3 credits

$\square$ EC-101 Principles of Macroeconomics (recommended)PO-100 Perspectives on PoliticsUR-151 The Contemporary CityUR-125 Intro to Social Work
Core Requirement 2.2 - select one from each field SLO 2.2 Distinguish behaviors and characteristics that support effective and appropriate interaction in a variety of cultural contexts

## Arts/Languages - 3 credits

$\square$ AR-110 Art in the City
$\square$ AR-127 Intro to Visual Arts
$\square$ AR-128 Intro to Music
$\square$ Modern, Classical or Cultural Language
$\square$ Additional Humanities - 3 credits
$\square$ AR-110 Art in the City
$\square$ AR-127 Intro to Visual ArtsEL-205 Survey of World Lit
$\square$ AR-128 Intro to Music EL-206 PoetryEL-201 English Lit I EL-207 DramaEL-202 English Lit II EL-208 FictionEL-203 American Lit I HS-100/200-levelEL-204 American Lit II
$\square$ Modern, Classical or Cultural Language

## Social Sciences - 3 credits

$\square$ SO-121 Intro to Sociology
$\square$ AS/AT/LS/SJ/SO-101 Intro to Latin Am. and Latino Studies
$\square$ AT/GS/SJ/SO-136 Intro to LGBTQ Studies
$\square$ AT/GS/LS/SJ/SO-140 Intro to Women's Studies
$\square$ AS/LS/SJ/SO-177 Intro to Africana Studies
$\square$ SO-206 Exploring American Identities (CELAC students only)

Core Requirement 2.3 - select one from each field
SLO 2.3: Discern ethical and moral principles in order to more fully understand one's role as an individual in a larger community

## Philosophy - 3 credits

$\square$ PL-130 Intro to Philosophy
$\square$ PL-140 Intro to Ethics

## $\square$ Theology - 3 credits

$\square$ TH-110 Religious Faith in the Modern World
$\square$ TH-120 Intro to the Study of Christianity
$\square$ Any 200 or 300-level Philosophy or Theology

- 3 credits


## Core Requirement 3.1 - select one from each field

SLO 3.1 Apply fundamental scientific principles and methods of inquiry to understand the impacts of the scientific research technology

## Natural Sciences - 3 credits

Either BI-122 or BI-124 is recommended.
Bl-122 Nutrition in Health and Disease
BI-124 Human Structure and Function
$\square$ Biology, Chemistry, or Physics

## $\square$ STEM - 3 credits

$\square$ CS-180 Introduction to Programming (required)
Core Requirement 4.1 - select one from each field
SLO 4.1 Recognize the role of service, leadership and Ignatian ideals in the realization of a just, civil society

Ignatian Seminar (FY-100 level) - 3 credits
Must be completed within first 30 credits, with the exception of transfer students

## Interdisciplinary - 3 credits

Courses offered will vary by term and year; please check Student Planning

## Distributive Requirements

In some cases, these may be satisfied as part of the major requirements. Some courses may satisfy more than one of these requirements.Pluralism
$\square$ Values $\qquad$ Pre-requisite courses: one PL and one TH course

Writing Intensive $\qquad$ must have greater than 30 credits Oral Communication $\qquad$

Credit Requirement for Graduation - 120 credits
At least 37-39 additional credits are need to reach 120 credits (minimum for graduation). Students are encouraged to fulfill these credits with a minor.


