## Essential Mathematics - 3 Credits

Take one of the following courses
$\square$ MA-101 Precalculus
$\square$ MA-107 Topics in Contemporary Mathematics
$\square$ MA-218 Quantitative Methods for Business

## Essential Statistics - 6 Credits

Take two of the following courses. At least one course must be numbered 132 or higher. A student may not receive credit for both MA-132 and MA-212.
$\square$ MA-103 Probability and Statistics for Liberal ArtMA-106 Introduction to Probability and StatisticsMA-132 Statistics for the Life Sciences
$\square$ MA-212 Elementary Statistics
$\square$ MA-222 Intermediate Statistics
$\square$ MA-304 Statistics, Probability, and Discrete Math for Middle School
$\square$ MA-336 Mathematical Statistics
$\square$ MA-337 Statistical Computing with R

## Calculus - 6-8 Credits

Take two calculus courses. Students can only receive credit for one 100 level Calculus sequence.MA-123 Elementary Calculus IMA-124 Elementary Calculus II
or
$\square$ MA-143 Differential Calculus (4 cr)
$\square$ MA-144 Integral Calculus (4 cr)
or
$\square$ MA-273 Multivariable Calculus I (4 cr)MA-274 Multivariable Calculus II (4 cr)

## Algebra - 3 Credits

Take one of the following courses
$\square$ MA-247 Introductory Linear Algebra
$\square$ MA-302 Elementary Math Functions for Middle School
$\square$ MA-441 Modern Algebra

## Geometry - 3 Credits

Take one of the following courses
$\square$ MA-306 Geometry for Middle School
$\square$ MA-350 College Geometry

## Required Courses - 6 Credits

Each of the following courses must be taken
$\square$ MA-250 Transitions to Advanced Mathematics
MA-400 History of Mathematics

## Capstone Experience - 0 Credits

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

## Mathematics Electives - 6-8 Credits

Take two of these courses. A course cannot be counted as an elective course and towards another major requirement. At least four courses that count towards the major must be at the 300-level or above.

Choose up to one of the following - 3-4 Credits
MA-212 Elementary Statistics
MA-214 Mathematics of Finance
MA-216 Computer Mathematics
MA-218 Quantitative Methods for Business
MA-222 Intermediate Statistics
MA-247 Introductory Linear Algebra
MA-273 Multivariable Calculus I (4 cr)
MA-274 Multivariable Calculus II (4 cr)
MA-295 Credited Internship
MA-302 Elementary Math Functions for Middle School
MA-304 Statistics, Probability, and Discrete Math for Middle School
MA-306 Geometry for Middle School

## Choose at least one of the following - 3-4 Credits

MA-316 Intermediate Discrete Mathematics
MA-335 Probability Theory
MA-336 Mathematical Statistics
MA-337 Statistical Computing with R
MA-338 Regression Analysis
MA-347 Topics in Linear Algebra
MA-350 College Geometry
MA-375 Advanced Calculus
MA-377 Ordinary Differential Equations
or MA-379 Differential Equations for Engineers (4 cr)
MA-382 Mathematical Modeling
MA-385 Topics in Applied Mathematics
MA-387 Topics in Mathematics
MA-389 Topics in Statistics
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
MA-481 Numerical Analysis

## Composition - 3 credits

Additional Composition course(s) may be required based on placement testing

## CM-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

## $\square$ Literature - 3 credits

$\square$ EL-201 English Lit IEL-205 Survey of World Lit
$\square$ EL-202 English Lit IIEL-206 Poetry
$\square$ EL-203 American Lit I EL-207 Drama
$\square$ EL-204 American Lit II 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)
$\square$ PO-100 Perspectives on Politics
$\square$ UR-151 The Contemporary City
$\square$ UR-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
$\square$ 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 - $\mathbf{3}$ 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-level
$\square$ EL-204 American Lit II Modern, Classical or Cultural Language

## Social Sciences - 3 credits

$\square$ SO-121 Intro to Sociology
$\square \mathrm{AS} / \mathrm{AT} / \mathrm{LS} / \mathrm{SJ} / \mathrm{SO}-101$ Intro to Latin Am. and Latino Studies
$\square$ AT/GS/SJ/SO-136 Intro to LGBTQ StudiesAT/GS/LS/SJ/SO-140 Intro to Women's StudiesAS/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
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
$\square$ Natural Sciences - $\mathbf{3}$ credits
Either BI-122 or BI-124 is recommended.
$\square \mathrm{BI}-122$ Nutrition in Health and Disease
$\square \mathrm{BI}-124$ Human Structure and Function
$\square$ Biology, Chemistry, or Physics

## STEM - 3 credits

$\square$ CS-180 Introduction to Programming (recommended)
$\square$ Biology, Chemistry, Computer Science, EV100/101, Physics, or Psychology

## 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 $\qquad$
$\square$ Values $\qquad$ Pre-requisite courses, one PL and one TH course

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

Credit Requirement for Graduation - 120 credits
At least 39-42 additional credits are need to reach 120 credits (minimum for graduation). Students are encouraged to fulfill these credits with a minor.


