

☐ MA-250 Transitions to Advanced Mathematics

☐ MA-400 History of Mathematics

Mathematics Major BA – Elementary Ed concentration (33-37 credits)

Essential Mathematics - 3 Credits	Capstone Experience - 0 Credits
Take one of the following courses	To be satisfied in an upper division MA course during the student's senior year.
☐ MA-101 Precalculus	
☐ MA-107 Topics in Contemporary Mathematics	Mathematics Electives - 6-8 Credits
☐ MA-218 Quantitative Methods for Business	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
Essential Statistics - 6 Credits	major must be at the 300-level or above.
Take two of the following courses. At least one course must be	Choose up to one of the following – 3-4 Credits
numbered 132 or higher. A student may not receive credit for both MA-132 and MA-212.	☐ MA-212 Elementary Statistics
☐ MA-103 Probability and Statistics for Liberal Art	☐ MA-214 Mathematics of Finance
☐ MA-106 Introduction to Probability and Statistics	☐ MA-216 Computer Mathematics
☐ MA-132 Statistics for the Life Sciences	☐ MA-218 Quantitative Methods for Business
☐ MA-212 Elementary Statistics	☐ MA-222 Intermediate Statistics
☐ MA-222 Intermediate Statistics	☐ MA-247 Introductory Linear Algebra
☐ MA-304 Statistics, Probability, and Discrete Math for	☐ MA-273 Multivariable Calculus I (4 cr)
Middle School	☐ MA-274 Multivariable Calculus II (4 cr)
☐ MA-336 Mathematical Statistics	☐ MA-295 Credited Internship
☐ MA-337 Statistical Computing with R	☐ MA-302 Elementary Math Functions for Middle School
·	☐ MA-304 Statistics, Probability, and Discrete Math for Middle Schoo
<u>Calculus - 6-8 Credits</u>	☐ MA-306 Geometry for Middle School
Take two calculus courses. Students can only receive credit for one	,
100 level Calculus sequence.	Choose at least one of the following - 3-4 Credits
☐ MA-123 Elementary Calculus I	☐ MA-316 Intermediate Discrete Mathematics
☐ MA-124 Elementary Calculus II	☐ MA-335 Probability Theory
Or	☐ MA-336 Mathematical Statistics
☐ MA-143 Differential Calculus (4 cr)	☐ MA-337 Statistical Computing with R
☐ MA-144 Integral Calculus (4 cr)	☐ MA-338 Regression Analysis
Of	☐ MA-347 Topics in Linear Algebra
☐ MA-273 Multivariable Calculus I (4 cr)	☐ MA-350 College Geometry
☐ MA-274 Multivariable Calculus II (4 cr)	☐ MA-375 Advanced Calculus
Alashar 2 Cardita	☐ MA-377 Ordinary Differential Equations
Algebra - 3 Credits	or MA-379 Differential Equations for Engineers (4 cr)
Take one of the following courses ☐ MA-247 Introductory Linear Algebra	☐ MA-382 Mathematical Modeling
☐ MA-302 Elementary Math Functions for Middle School	☐ MA-385 Topics in Applied Mathematics
☐ MA-441 Modern Algebra	☐ MA-387 Topics in Mathematics
□ MA-441 Modelli Algebia	☐ MA-389 Topics in Statistics
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Geometry – 3 Credits Take one of the following courses	☐ MA-417 Introduction to Topology
☐ MA-306 Geometry for Middle School	☐ MA-441 Modern Algebra
☐ MA-350 College Geometry	☐ MA-442 Topics in Modern Algebra
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Required Courses - 6 Credits	☐ MA-481 Numerical Analysis
Each of the following courses must be taken	, i



☐ SO-206 Exploring American Identities (CELAC students only)

Core for Math

BA – Elementary Ed (45 credits)

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Composition – 3 credits Additional Composition course(s) may be required based on placement testing □ CM-102 English Composition II	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
Core Requirement 1.1 - select one 3-4 credit course SLO 1.1: Problem solve and analyze quantitative information Based on placement testing	 □ Philosophy - 3 credits □ PL-130 Intro to Philosophy □ PL-140 Intro to Ethics
□ MA-123 Elementary Calculus I□ MA-124 Elementary Calculus II□ MA-143 Differential Calculus	 ☐ Theology - 3 credits ☐ TH-110 Religious Faith in the Modern World ☐ TH-120 Intro to the Study of Christianity
□ MA-144 Integral Calculus □ MA-273 Multivariable Calculus (4 cr) □ MA-274 Multivariable Calculus (4 cr)	□ Any 200 or 300-level Philosophy or Theology− 3 credits
Core Requirement 2.1 – select one from each field SLO 2.1: Critically think about ideas and events that have shaped the humanistic tradition	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
□ Literature - 3 credits □ EL-201 English Lit I □ EL-205 Survey of World Lit □ EL-202 English Lit II □ EL-206 Poetry □ EL-203 American Lit I □ EL-207 Drama □ EL-204 American Lit II □ EL-208 Fiction	 □ Natural Sciences - 3 credits Either BI-122 or BI-124 is recommended. □ BI-122 Nutrition in Health and Disease □ BI-124 Human Structure and Function □ Biology, Chemistry, or Physics
 □ History - any 100 or 200 level course, 3 credits □ Social Sciences - 3 credits □ EC-101 Principles of Macroeconomics (recommended) □ PO-100 Perspectives on Politics □ UR-151 The Contemporary City 	 □ STEM - 3 credits □ CS-180 Introduction to Programming (recommended) □ 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
☐ 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	 in the realization of a just, civil society ☐ Ignatian Seminar (FY-100 level) - 3 credits
 □ Arts/Languages - 3 credits □ AR-110 Art in the City □ AR-127 Intro to Visual Arts □ AR-128 Intro to Music □ Modern, Classical or Cultural Language 	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
 □ Additional Humanities - 3 credits □ AR-110 Art in the City □ AR-127 Intro to Visual Arts □ EL-205 Survey of World Lit □ AR-128 Intro to Music □ EL-206 Poetry □ EL-207 Drama 	 □ Values Pre-requisite courses, one PL and one TH course □ Writing Intensive must have greater than 30 credits □ Oral Communication
□ EL-201 English Lit II □ EL-208 Fiction □ EL-203 American Lit I □ HS-100/200-level □ EL-204 American Lit II □ Modern, Classical or Cultural Language	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. (3 Credits)
 Social Sciences - 3 credits □ SO-121 Intro to Sociology □ AS/AT/LS/SJ/SO-101 Intro to Latin Am. and Latino Studies □ AT/GS/SJ/SO-136 Intro to LGBTQ Studies □ AT/GS/LS/SJ/SO-140 Intro to Women's Studies □ AS/LS/SJ/SO-177 Intro to Africana Studies 	(3 Credits)