

Bachelors of Science in Mathematics

MATHEMATICS – LOWER LEVEL CLASSES

Area A - Essential Skills (9 hours)			Area E - Social Science (12 hours)		
ENGL 1101	English Composition I	3	HIST 2111 or 2112	United States History	3
ENGL 1102	English Composition II	3	POLS 1101	American Government	3
MATH 1112 or 1113	Plane Trig. or Precalculus	3	Area E Elective		3
Area B - Institutional Options (4 hours)			Global Perspectives Elective		
Area B Elective		4	Area F - Major Field (18 hours)		
Area C - Humanities/Fine Arts (6 hours)			MATH 1371	Computing for Math Sciences	4
Literature Elective			MATH 2252	Calculus II	4
Area C Elective		3	MATH 2253	Calculus III	4
Area D - Natural Science, Math, and Technology (11 hours)			MATH 2260	Introduction to Linear Algebra	3
Lab Science Electives*		8	MATH 2270	Differential Equations	3
MATH 1251	Calculus I	3			

MATHEMATICS – UPPER LEVEL CLASSES

Upper Level Core Classes (21 hours)

MATH 2120	Discrete Mathematics	3	MATH 4920	Senior Seminar	2
MATH 3040	Bridge to Higher Mathematics	3	MATH Elective+		2
MATH 3600	Probability and Statistics	3	<i>Overflow Hours from Areas D & F</i>		
MATH 4150	Linear Algebra	3	MATH 1251	Calculus I	1
MATH 4621	Mathematical Statistics I	3	MATH 2270	Differential Equations	1

CHOOSE BETWEEN APPLIED MATHEMATICS TRACK AND MATHEMATICS EDUCATION TRACK

APPLIED MATHEMATICS TRACK

Major Field Courses (27 hours)		
MATH 3251	Applied Combinatorics	3
MATH 4260	Mathematical Analysis	3
MATH 4300	Regression Analysis	3
MATH 4480	Graph Theory	3
MATH 4622	Mathematical Statistics II	3
MATH 4651	Numerical Analysis I	3
MATH 4652	Numerical Analysis II	3
MATH 4901	Operations Research I	3
MATH 4905	Optimization	3
Electives (12 hours)		
Math Electives+		12

MATHEMATICS EDUCATION TRACK

MATH 3010	History of Mathematics	3
MATH 3510	Foundations of Geometry	3
MATH 4480	Graph Theory	3
MATH 4110	Number Theory	3
EDUC 2110	Invest. Critical & Cont. Issues.	3
EDUC 2120	Exp. Socio-Cult. Persp. In Divers.	3
EDUC 2130	Exploring Teaching & Learning	3
EDUC 3550*	Assessment for Learning	3
EDUC 3600*	Teaching/Learning in Sec. Math	4
EDUC 3602*	Internship in Secondary School	3
EDUC 3401*	Explorations into Teaching	1
EDUC 3402*	Making Classroom Connections	2
EDUC 4604*	Student Teaching	8
SPED 3110*	Intro to the Exceptional Learner	3

+ Any mathematics course above the 3000 level excluding Early Childhood or Middle Grades Education Courses (MATH 3106, 3110, 3156, 3310, 3320, 3330)

* Requires acceptance into the Education Program

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