

Bachelors of Science in Mathematics

MATHEMATICS – LOWER LEVEL CLASSES

Area A - Essential Skills (9 hours)

ENGL 1101	English Composition I	3
ENGL 1102	English Composition II	3
MATH 1113	Precalculus	3

Area B - Institutional Options (4 hours)

MSCC 1000	Perspectives on Information	1
Area B Elective		3

Area C - Humanities/Fine Arts (6 hours)

Literature Elective		3
Area C Elective		3

Area D - Natural Science, Math, and Technology (11 hours)

Lab Science Electives*		8
MATH 1251	Calculus I	3

Area E - Social Science (12 hours)

HIST 2111 or 2112	United States History	3
POLS 1101	American Government	3
Area E Elective		3
Area E Elective		3

Area F - Major Field (18 hours)

MATH 2252	Calculus II	4
MATH 2253	Calculus III	4
CPSC 1301	Computer Science I	4
MATH 2260	Introduction to Linear Algebra	3
MATH 1220	Discrete Mathematics	3

Physical Education (2 hours)

2

* PHYS 2211K-2212K or CHEM 1211K-1212K are recommended

MATHEMATICS – UPPER LEVEL CLASSES

Upper Level Core Classes (21 hours)

MATH 1251	Calculus I	1	MATH 4150	Linear Algebra	3
MATH 2270	Differential Equations	3	MATH 4621	Mathematical Statistics I	3
MATH 3040	Bridge to Higher Mathematics	3	MATH 4910	Mathematical Models	3
MATH 3600	Probability and Statistics	3	MATH 4920	Senior Seminar	2

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 4480	Graph Theory	3
MATH 4622	Mathematical Statistics II	3
MATH 4300	Regression Analysis	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
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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 4500*	Differentiated Instruction	3
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

For More Information, Contact Any Mathematics Faculty Member

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