

Bachelor's Program: MATHEMATICS (Lower Level Core - 62 Hours)

STUDENT: _____

ADVISOR: _____

MSC ID: _____

Advising for (Semester, Year): _____

Area A: Essential Skills (9hrs)	Credits	Semester	Year	Grade	Comments
ENGL 1101	3				
ENGL 1102	3				
MATH 1112 or MATH 1113	3				
Area B: Institutional Options (4hrs)					
MSCC 1000	1				
Area B Elective	3				
Area C: Humanities & Fine Arts (6hrs)					
Literature Elective	3				
Area C Elective	3				
Area D: Science, Math & Tech. (11 hrs)					
Lab Science Elective	4				
Lab Science Elective	4				
MATH 1251**	3				
** 1 credit hour of MATH 1251 is used for Upper Level Core					
Area E: Social Sciences (12 hrs)					
HIST 2111 or HIST 2112	3				
POLS 1101	3				
Area E Elective	3				
Area E Elective (Global Perspectives)	3				HIST 1111, HIST 1112, HIST 1190, POLS, 2301, POLS 2401, ENGL 2111, ENGL 2112
Area F: Major Field (18 hrs)					
MATH 1371	4				
MATH 2120	3				
MATH 2252	4				
MATH 2253	4				
MATH 2260	3				
Physical Education (2hrs)					
Physical Education Elective	1				
Physical Education Elective	1				

NOTES: _____

Student Signature: _____

Date: _____

Advisor Signature: _____

Date: _____

Bachelor's Program: APPLIED MATHEMATICS TRACK (Upper Level - 60 Hours)

STUDENT: _____

ADVISOR: _____

MSC ID: _____

Advising for (Semester, Year): _____

Mathematics Courses	Credits	Prereq.	Offered ⁺	Semester	Year	Grade	Comments
MATH 1251 - Calculus I	1	MATH 1112/1113	Spring/Sum/Fall				
MATH 2270 - Differential Equations	3	MATH 2252	Spring/Sum/Fall				
MATH 3040 - Bridge to Higher Math	3	MATH 2252	Spring/Fall				
MATH 3251 - Applied Combinatorics	3	MATH 2252	Fall				
MATH 3600 - Probability and Statistics	3	MATH 2252	Sum/Fall				
MATH 4150 - Linear Algebra	3	MATH 2260 MATH 3040	Spring				
MATH 4260 - Mathematical Analysis	3	MATH 3040	Spring				
MATH 4480 - Graph Theory	3	MATH 2252	Fall				
MATH 4621 - Mathematical Statistics I	3	MATH 2253 MATH 3600	Fall				
MATH 4622 - Mathematical Statistics II	3	MATH 4621	Spring				
MATH 4300 - Regression Analysis	3	MATH 3600	Spring				
MATH 4651 - Numerical Analysis I	3	MATH 2252 MATH 1371	Fall				
MATH 4652 - Numerical Analysis II	3	MATH 4651 MATH 2270	Spring				
MATH 4901 - Operations Research I	3	MATH 4150	Fall				
MATH 4905 - Optimization	3	MATH 2252	Spring				
MATH 4920 - Senior Seminar	2	MATH 2252	Spring				
Electives							
MATH Elective*	3						
MATH Elective*	3						
MATH Elective*	3						
MATH Elective*	3						
MATH Elective*	3						

* Any MATH >3000 level excluding Early Childhood or Middle Grades Courses (MATH 3106, 3110, 3156, 3310, 3320, 3330)

+ Tentatively scheduled. Subject to change.

NOTES: _____

Student Signature: _____

Date: _____

Advisor Signature: _____

Date: _____

Bachelor's Program: MATH EDUCATION TRACK (Upper Level - 66 Hours)

STUDENT: _____

ADVISOR: _____

MSC ID: _____

Advising for (Semester, Year): _____

Mathematics Courses	Credits	Prereq.	Offered ⁺	Semester	Year	Grade	Comments
MATH 1251 - Calculus I	1	MATH 1112/1113	Spring/Sum/Fall				
MATH 2270 - Differential Equations	3	MATH 2252	Spring/Sum				
MATH 3010 - History of Mathematics	3	MATH 1113	Fall				
MATH 3040 - Bridge to Higher Math	3	MATH 2252	Spring/Fall				
MATH 3510 - Foundations of Geometry	3	MATH 3040	Spring				
MATH 3600 - Probability and Statistics	3	MATH 2252	Sum/Fall				
MATH 4110 - Number Theory	3	MATH 2252	Fall				
MATH 4150 - Linear Algebra	3	MATH 2260 MATH 3040	Spring				
MATH 4480 - Graph Theory	3	MATH 2252	Fall				
MATH 4621 - Mathematical Statistics I	3	MATH 2253 MATH 3600	Fall				
MATH 4920 - Senior Seminar	2	MATH 2252	Spring				
MATH Elective**	3						

** Any MATH >3000 level excluding Early Childhood or Middle Grades Courses (MATH 3106, 3110, 3156, 3310, 3320, 3330)

Education Courses

EDUC 2110 - Investigating Critical and Contemporary Issues in Education	3	None					
EDUC 2120 - Exploring Socio-Cultural Issues in Education	3	None					
EDUC 2130 - Exploring Teaching and Learning	3	None					
*EDUC 3550 - Assessment for Learning	3						Must be taken with EDUC 3600 and EDUC 3602
*EDUC 3600 - Teaching and Learning in the Secondary Math Environment	4						Must be taken with EDUC 3550 and EDUC 3602
*EDUC 3602 - Internship in Secondary School Mathematics	3						Must be taken with EDUC 3550 and EDUC 3600
*EDUC 3401 - Explorations into Teaching	1						
*EDUC 3402 - Making Classroom Connections	2						
*EDUC 4604 - Student Teaching	8		Spring				Taken during the last semester enrolled.
*SPED 3110 - Introduction to the Exceptional Learner	3						

* Students must be admitted to the Education Program prior to taking upper division education courses.

+ Tentatively scheduled. Subject to change.

NOTES: _____

Student Signature: _____

Date: _____

Advisor Signature: _____

Date: _____

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		3
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			MATHEMATICS EDUCATION TRACK		
Major Field Courses (27 hours)			MATH 3010	History of Mathematics	3
MATH 3251	Applied Combinatorics	3	MATH 3510	Foundations of Geometry	3
MATH 4260	Mathematical Analysis	3	MATH 4480	Graph Theory	3
MATH 4300	Regression Analysis	3	MATH 4110	Number Theory	3
MATH 4480	Graph Theory	3	EDUC 2110	Invest. Critical & Cont. Issues.	3
MATH 4622	Mathematical Statistics II	3	EDUC 2120	Exp. Socio-Cult. Persp. In Divers.	3
MATH 4651	Numerical Analysis I	3	EDUC 2130	Exploring Teaching & Learning	3
MATH 4652	Numerical Analysis II	3	EDUC 3550*	Assessment for Learning	3
MATH 4901	Operations Research I	3	EDUC 3600*	Teaching/Learning in Sec. Math	4
MATH 4905	Optimization	3	EDUC 3602*	Internship in Secondary School	3
Electives (12 hours)			EDUC 3401*	Explorations into Teaching	1
Math Electives+		12	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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For More Information, Contact Any Mathematics Faculty Member

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