

STUDENT:	STUDENT ID NUMBER:
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MAJOR PROGRAM

Core Courses		
COURSE	CR	GRADE
MAT 181: CALCULUS I	4	
MAT 182: CALCULUS II	4	
MAT 224: FOUNDATIONS OF HIGHER MATHEMATICS	3	
MAT 260: LINEAR ALGEBRA I	3	
MAT 283: CALCULUS III	4	
MAT 301: PROBABILITY & STATISTICS I	3	
MAT 311: ABSTRACT ALGEBRA I	3	
MAT 351: REAL ANALYSIS I	3	
MAT 380: SENIOR SEMINAR IN MATHEMATICS	3	
TOTAL CREDITS	30	

Specialization A: Applied Mathematics		
REQUIRED COURSE	CR	GRADE
MAT 340: DIFFERENTIAL EQUATIONS	3	
CHOOSE THREE COURSES, AT LEAST ONE WITH **		
MAT 302: PROBABILITY & STATISTICS II **	3	
MAT 305: MATHEMATICS OF FINANCE I	3	
MAT 306: MATHEMATICS OF FINANCE II **	3	
MAT 332: NUMERICAL ANALYSIS	3	
MAT 361: OPERATIONS RESEARCH I	3	
MAT 362: OPERATIONS RESEARCH II **	3	
MAT 367: MATHEMATICAL MODELING	3	
MAT 403: ANALYSIS OF DATA SETS	3	
MAT 473: PARTIAL DIFFERENTIAL EQUATIONS **	3	
TOTAL CREDITS	12	

Specialization P: Pure Mathematics		
CHOOSE FOUR COURSES, AT LEAST ONE WITH **	CR	GRADE
MAT 312: ABSTRACT ALGEBRA II **	3	
MAT 321: COMBINATORICS	3	
MAT 330: THEORY OF NUMBERS	3	
MAT 337: INTRODUCTION TO CRYPTOGRAPHY	3	
MAT 352: REAL ANALYSIS II **	3	
MAT 369: INTRODUCTION TO GRAPH THEORY	3	
MAT 400: COMPLEX VARIABLES	3	
MAT 431: TOPOLOGY	3	
MAT 460: LINEAR ALGEBRA II **	3	
TOTAL CREDITS	12	

Mathematics Electives <small>9 ADDITIONAL MAT CREDITS AT THE 200 LEVEL OR HIGHER, WITH AT LEAST 6 CREDITS AT THE 300 LEVEL OR HIGHER</small>		
COURSE	CR	GRADE
TOTAL CREDITS	9	

Free Electives		
COURSE	CR	GRADE
TOTAL CREDITS	24-27	

Concomitant Courses <small>CREDITS ARE COUNTED IN GEN ED OR FREE ELECTIVES</small>		
COURSE	CR	GRADE
CSC 123 OR CSC 135	X	
CSC 136 OR HIGHER, OR MAT 210	X	
If MAT 210 is counted here, it cannot count as a Mathematics Elective above.		

Required General Education Courses		
LABORATORY SCIENCE SEQUENCE: CHOOSE TWO COURSES WITH SAME PREFIX	CR	GRADE
	X	
	X	
See Restrictions Below		

RESTRICTIONS ON LABORATORY SCIENCE COURSES:

AST 140, 142, 205; BIO 104, 106, 108, 120, 122, 160, 216, 218, 220, 222, 224, 226; CHM 100, 102; ENV 100, 210, 220, 222; GEG 204, 304; GEL 100, 102; PHY 100, 102

CERTIFICATES (B OR BETTER IN EACH COURSE REQUIRED):

OPERATIONS RESEARCH CERTIFICATE: MAT 361 AND 362
 STATISTICS CERTIFICATE: MAT 301, 302, AND 403

GRADUATION REQUIREMENTS							
		REQUIRED	✓		REQUIRED	✓	
	GENERAL EDUCATION CREDITS	42-45			COMPREHENSIVE EXAM	PASS	
	MATH CREDITS	51			MINIMUM QPA OVERALL	2.0	
	FREE ELECTIVES	24-27			MINIMUM QPA IN MAJOR	2.0	
	TOTAL CREDITS	120					