BA: Mathematics (122 S.H. required to complete the degree)

Name:_____   Adviser:_____

General Education Requirements (42 S.H.)

COMMUNICATION SKILLS (3 S.H.)
Choose one of the following: COM 160 Public Speaking, COM 161 Decision Making in Groups, COM 162 Interpersonal Communication **or** COM 163 Introduction to Communication Skills

COM:	3	

WRITING INTENSIVE (W)
All students must complete at least one writing intensive course. W courses can be found in several disciplines. The credits will be counted in the discipline associated with the course. *NOTE: WRT 101 does not satisfy the writing intensive requirement.*

Course:	Y/N	

FOREIGN LANGUAGE
All math majors must complete a foreign language requirement. This may be done by completing a language at an elementary II level or above. Students who have completed three years of language in high school with at least a C average have satisfied this requirement. (For more info, click the link above.)

Foreign Language Requirement Met?	Y / N	

HUMANITIES (15 S.H.)
Including 3 of 6 categories: Fine and Applied Arts (*NOTE: only one studio course accepted toward minimum*), Literature, History, Humanistic Studies, Philosophy and Foreign Language. **NOTE:** *For foreign language courses you must complete Elementary II or higher before counting Elementary I as Humanities credit.*

Elective:	3	
Elective:	3	
Elective:	3	
Elective:	3	
Elective:	3	

SOCIAL AND BEHAVIORAL SCIENCES (12 S.H.)
Courses that satisfy this requirement can be found in Social Sciences (Anthropology, Economics, Political Science, Social Sciences, and Sociology), Non-Western Cultures, and Psychology. *You must select courses from at least 2 of the 3 main areas: Social Sciences, Psychology and Non-Western Cultures.*

Elective:	3	
Elective:	3	
Elective:	3	
Elective:	3	

NATURAL SCIENCES, MATHEMATICS & COMPUTER SCIENCE (11-12 S.H.)
Students must complete one lab Science and the math and computer Science courses as specified for this category. *NOTE: MAT 100 does not satisfy this requirement.*

Lab Science:	4	
MAT 181 Calculus I or MAT 171 Calculus with Precalculus II (must take MAT 170 before MAT 171 counts as credit)**	4	
CS 140 Introduction to Programming or CS 143 Visual BASIC	3—4	

HEALTH PROMOTION AND EXERCISE SCIENCES (2 S.H.)

HPX 177 Fitness for Life — Lecture	1	
HPX 177 Fitness for Life — Activity	1	

*Math Majors must earn a C or better.
**Math Majors must receive a B or better.

Major Requirements (45 S.H.)

MAT 150 Mathematics Seminar I	.5	
MAT 151 Mathematics Seminar II	.5	
MAT 141 Foundational Discrete Mathematics*	3	
MAT 182 Calculus II **	4	
MAT 185 Introduction to Symbolic Computations	3	
MAT 207 Proofs*	3	
MAT 222 Introductory Statistics	3	
MAT 272 Introduction to Linear Algebra*	3	
MAT 281 Calculus III*	4	
MAT 282 Differential Equations	3	
MAT 332 Introduction to Applied Mathematics	3	
MAT 375 Algebraic Structures*	3	
MAT 383 Introduction to Mathematical Analysis	3	
MAT 450 Senior Seminar I	1.5	
MAT 451 Senior Seminar II	1.5	
One Course which completes a sequence in Analysis, Algebra or Applied Math:	3	
One elective from the Department's Approved List	3	

A YEAR SEQUENCE FROM ONE OF THE FOLLOWING (may also be used to satisfy general education requirements) BIO 103-104, CHE 110-111 or ECO 211-101 or PHY 110-111 (6-8 S.H.)

Sequence Course #1:	3—4	
Sequence Course #2:	3—4	

FREE ELECTIVES (27-29 S.H.)

Elective:		
Elective:		
Elective:		
Elective:		
Elective:		
Elective:		
Elective:		
Elective:		
Elective:		
Elective:		

Free electives offer an opportunity to complete a minor, study a second language, study abroad, or participate in an internship. Make a plan.

NOTES

BA: Mathematics (122 S.H. required to complete the degree)

Four-Year Plan This is a sample sequence of courses. Other combinations are possible.

Prerequisites are in parentheses; see catalog for details. **Class standing by credit:** Freshman: 0-29 credits; Sophomore: 30-59 credits; Junior: 60-89 credits; Senior: 90+ credits

FIRST YEAR (30 S.H.)

SEMESTER 1 (15.5 S.H.)			SEMESTER 2 (15.5-16.5 S.H.)		
WRT 101 Composition I **or** Writing Intensive	3		CS 140 Introduction to Programming (MAT 100 or appropriate placement) **or** CS 143 Visual BASIC (MAT 100 or appropriate placement)	3 – 4	
MAT 181 Calculus I (MAT 133 **or** equivalent placement exam) **or** MAT 171 Calculus with Precalculus I (placement into gen ed math and must be taken with MAT 171 to receive credit)	3		MAT 182 Calculus II (MAT 181 **or** appropriate placement) **or** MAT 171 Calculus with Precalculus II (MAT 170)	3	
Gen Ed: Communication Skills	3		Gen Ed Social and Behavioral Sciences	3	
Gen Ed: Humanities (Language recommended)	3		Gen Ed: Humanities (Language recommended)	3	
MAT 150 Mathematics Seminar I (declared major in Math)	.5		MAT 151 Mathematics Seminar II (MAT 150)	.5	
MAT 141 Foundational Discrete Mathematics (MAT 100 with a grade ≥ B or appropriate placement)	3		MAT 207 Proofs (MAT 141 with a grade ≥ C)	3	

SECOND YEAR (29-31 S.H.)

SEMESTER 3 (15-16 S.H.)			SEMESTER 4 (15-16 S.H.)		
MAT 185 Introduction to Symbolic Computations (MAT 171 or MAT 181 and CS 140 or CS 143)	3		MAT 222 Introductory Statistics (MAT 171 with a grade ≥ C or MAT 181 with a grade ≥ C)	3	
MAT 272 Introduction to Linear Algebra (MAT 182)	3		MAT 282 Ordinary Differential Equations (MAT 182)	3	
MAT 281 Calculus III (MAT 182 with a grade ≥ C or MAT 181/171 with a grade ≥ B)	3		MAT 375 Algebraic Structures (MAT 272 with a grade ≥ C)	3	
Gen Ed: Social & Behavioral Sciences	3		Gen Ed: Humanities	3	
Gen Ed: Lab Science **or** Free Elective	3 – 4		Gen Ed Social & Behavioral Sciences	3 – 4	

THIRD YEAR (30-32 S.H.)

SEMESTER 5 (17 S.H.)			SEMESTER 6 (15 S.H.)		
MAT 332 Introduction to Applied Mathematics (MAT 222 and 272 with a grade ≥ C and MAT 272 with a grade ≥ C)	3		MAT 467 Topics in Mathematics (MAT 332, MAT 375, or MAT 383 with a grade ≥ C, as a appropriate to the topic determined by the department)	3	
Science Sequence I	3		Science Sequence II	3	
Gen Ed Humanities	3		MAT 383 Introduction to Analysis (MAT 207 & 182)	3	
Gen Ed: Social & Behavioral Sciences	3		Free Elective	3	
Free Elective	3		Free Elective	3	
HPX 177 Fitness for Life (Lecture & Activity)	2				
Complete a degree audit and plan for application for graduation					

FOURTH YEAR (34 S.H.)

SEMESTER 7 (15 S.H.)			SEMESTER 8 (15 S.H.)		
MAT 450 Senior Seminar I (Senior standing in BA Mathematics program)	3		MAT 451 Senior Seminar II (Senior standing in BA Mathematics program)	3	
Approved Math Sequence Elective (prerequisites vary, see catalog)	3		Approved Math Elective (prerequisites vary, see catalog)	3	
Free Elective	3		Free Elective	3	
Free Elective	3		Free Elective	3	
Free Elective	3		Free Elective	3	

The number of Free Electives available will vary based on your initial math & writing placement tests. MAT 100 and WRT 101 if required, count as elective credit.

Approved Electives:

MAT 250 Mathematical Modeling (MAT 182)
MAT 251 Posing & Solving Problems in Mathematics (MAT 182)
MAT 363 History of Mathematics (MAT 182)
MAT 298 Faculty Developed Study (requires approval)

MAT 299 Student Developed Study (requires approval)
MAT 342 Topics in Geometry (MAT 242)
MAT 351 Independent Study (requires approval)
MAT 359 Introduction to Theory & Computation (CS/MAT 165 and MAT 171 or MAT 181)