

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. <i>NOTE: WRT 101 does not satisfy the writing intensive requirement.</i>		
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 (<i>NOTE: only one studio course accepted toward minimum</i>), 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. <i>You must select courses from at least 2 of the 3 main areas: Social Sciences, Psychology and Non-Western Cultures.</i>		
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. <i>NOTE: MAT 100 does not satisfy this requirement.</i>		
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 100-101 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:		
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Free electives offer an opportunity to complete a minor, study a second language, study abroad, or participate in an internship. Make a plan.

NOTES

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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

SEMESTER 1 (15.5 S.H.)		SEMESTER 2 (15.5-16.5 S.H.)		
FIRST YEAR (30 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 \geq B or appropriate placement)	3	MAT 207 Proofs (MAT 141 with a grade \geq C)	3

SEMESTER 3 (15-16 S.H.)		SEMESTER 4 (15-16 S.H.)		
SECOND YEAR (29-31 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 \geq C or MAT 181 with a grade \geq 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 \geq C or MAT 181/171 with a grade \geq B)	3	MAT 375 Algebraic Structures (MAT 272 with a grade \geq 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

SEMESTER 5 (17 S.H.)		SEMESTER 6 (15 S.H.)		
THIRD YEAR (30-32 S.H.)	MAT 332 Introduction to Applied Mathematics (MAT 222 and 272 with a grade \geq C and MAT 272 with a grade \geq C)	3	MAT 467 Topics in Mathematics (MAT 332, MAT 375, or MAT 383 with a grade \geq C, as 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			

SEMESTER 7 (15 S.H.)		SEMESTER 8 (15S.H.)		
FOURTH YEAR (34 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)