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BS: Secondary Education – Mathematics (125 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: WRT101 does not satisfy the writing intensive requirement.*		
Writing Intensive*	Y/N	
FOREIGN LANGUAGE All 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 7 categories: Fine and Applied Arts (*NOTE: only one studio course accepted toward minimum)*, Communication, Literature, Humanistic Studies, Philosophy, History, and Foreign Language. **NOTE:** *You must complete the foreign language requirement (Elementary II or higher) before counting Elementary I foreign language courses as Humanities credit.*		
Fine/Applied Arts:	3	
HIS 148 American History to 1877 **or** HIS 149 American History from 1877	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 complete 2 of the 3 areas.		
PSY 100 Introduction to Psychology *	3	
Elective:	3	
Elective:	3	
Elective:	3	
NATURAL SCIENCES, MATHEMATICS AND COMPUTER SCIENCE (10 S.H.) Students must complete a lab science and two other courses in this category.		
Lab Science *	4	
MAT 222 Introductory Statistics*	3	
CS 140 Introduction to Programming	3	
HEALTH PROMOTION AND EXERCISE SCIENCES (2 S.H.)		
HPX 177 Fitness for Life — Lecture	1	
HPX 177 Fitness for Life — Activity	1	

*C or better is required for courses. **B or better is required for courses.

Note: MAT 171 is a substitute for MAT 181 only if MAT 170 is also completed.

NOTES

Major Requirements (83 S.H.)

MATHEMATICS MAJOR REQUIREMENTS (39 S.H.) MINIMUM 3.0 G.P.A.		
MAT 150 Math Seminar I	.5	
MAT 151 Math Seminar II	.5	
MAT 141 Foundational Discrete Mathematics*	3	
MAT 181 Calculus I *	4	
MAT 182 Calculus II *	4	
MAT 207 Proofs *	3	
MAT 242 Foundations of Geometry *	3	
MAT 272 Introduction to Linear Algebra *	3	
MAT 342 Topics in Geometry *	3	
MAT 375 Algebraic Structures *	3	
CHOOSE ONE: MAT 250 Mathematical Modeling, MAT 251 Posing and Solving Problems in Mathematics, MAT 332 Introduction to Applied Mathematic		
MAT:	3	
CHOOSE TWO: MAT 281 Calculus III, MAT 212 Math in Middle Grades, MAT 363 History of Mathematics, MAT 383 Introduction to Analysis		
MAT:	3	
MAT:	3	
MAT Elective (from approved list):	3	
SECONDARY EDUCATION CERTIFICATION REQUIREMENTS (35 S.H.)		
EPY 204 Adolescent Development in School Setting **	3	
ED 206 Introduction to Education **	3	
HPX 215 Health Issues in the Schools **	3	
PROFESSIONAL SEMESTER — COMPLETED AS 13 S.H. BLOCK		
EPY 405 Introduction to Special Education **	3	
ED 385 Methods of Teaching in the Secondary Schools **	3	
ED 386 Secondary Education Professional Development School Experience**	1	
ED 440 Integrating Language**	3	
ED 449 Teaching Math in Secondary Schools	3	
STUDENT TEACHING — COMPLETED AS 13 S.H. BLOCK		
ED 340 Assessment of Teaching Strategies	1	
ED 342 Student Teaching	12	
FREE ELECTIVE (9 S.H.)		
Elective:		
Elective:		
Elective:		
EXAMS FOR STATE CERTIFICATION		
Praxis I (or waiver) Required for admittance to program		
Praxis II		
LICENSE		
TK 20		

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

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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 (16.5 S.H.)			SEMESTER 2 (16.5 S.H.)		
FIRST YEAR (33 S.H.)	Writing Intensive	3		MAT 222 Introductory Statistics	3	
	Gen. Ed: HIS 148 American History to 1877 OR HIS 149 American History from 1877	3		Gen. Ed: Fine Art	3	
	Gen. Ed: Humanities or Free Elective	3		Gen Ed: PSY 100 Introduction to Psychology	3	
	Gen. Ed: COM 160, 161,162 or 163	3		Gen Ed: Social and Behavioral Sciences	3	
	MAT 181 Calculus II (MAT 181 or appropriate placement)	4		MAT 182 Calculus II (MAT 181 or appropriate placement)	4	
	MAT 150 Math Seminar I (declared Math major or MAT 100 or placement exam)	.5		MAT 151 Math Seminar II (MAT 150)	.5	

	SEMESTER 3 (16 S.H.)			SEMESTER 4 (15 S.H.)		
SECOND YEAR (31 S.H.)	Gen Ed: Social and Behavioral Sciences	3		Gen. Ed: CS 140 Introduction to Programming	3	
	Gen. Ed: Lab Science	4		MAT 272 Introduction to Linear Algebra (MAT 182)	3	
	Gen. Ed: Humanities (foreign language if required)	3		Gen. Ed: Humanities (foreign language if required)	3	
	MAT 141 Foundational Discrete Mathematics (MAT 100 with a grade ≥ B or appropriate placement)	3		EPY 204 Adolescent Development in School Setting (completion of 30 credits of course work and cumulative GPA ≥ 2.67)	3	
	ED 206 Introduction to Education	3		HPX 215 Health Issues in the School (30 S.H. completed)	3	

	SEMESTER 5 (17 S.H.)			SEMESTER 6 (15 S.H.)		
THIRD YEAR (32 S.H.)	Free Elective	3		MAT 342 Topics in Geometry (MAT 242)	3	
	MAT 242 Foundations of Geometry (junior standing in an Education major)	3		MAT 375 Algebraic Structures (MAT 272 with grade ≥ C)	3	
	Choice: MAT 281 (MAT 182 with a grade ≥ C or MAT 181 with a grade of B or better and concurrent registration in MAT 182), 212 (MAT 105 or 106 or declared Secondary education major), 363 (MAT 182), 383 (MAT 207and MAT 182)	3		Choice: MAT 281 (MAT 182 with a grade ≥ C or MAT 181 with a grade of B or better and concurrent registration in MAT 182), 212 (MAT 105 or 106 or declared Secondary education major), 363 (MAT 182) , 383 (MAT 207and MAT 182)	3	
	Gen Ed: Social and Behavioral Sciences:	3		MAT 207 Proofs (MAT 141 with a grade ≥ C)	3	
	Choice: MAT 250 (MAT 182), MAT 251 (MAT 182) , or MAT 332 (MAT 222 with a grade ≥ C and MAT 272)	3		Math Elective:	3	
	HPX 177 (lecture and activity)	2				
	Complete a degree audit and plan for application for graduation					

	SEMESTER 7 (13 S.H.)			SEMESTER 8 (16 S.H.)		
FOURTH YEAR (29 S.H.)	EPY 405 Introduction to Special Education (EPY 203 or 204 or PSY 210 or 211)	3		ED 340 Assessment of Teaching Strategies	1	
	ED 385 Methods of Teaching in Secondary Schools (enrollment in professional semester)	3		ED 342 Student Teaching	12	
	ED 386 Secondary Professional Development School Experience (enrollment in professional semester)	1		Free Elective	3	
	ED 440 Integrating Language (enrollment in professional semester)	3				
	ED 449** Teaching Math in Secondary Schools (enrollment in professional semester)	3				

The Education Department requirements are outlined on the department website. Please note requirements for admission to the program, exams, certifications, professional education fees and student teaching policies.

Approved Math Electives: (prerequisites vary, please see catalog for details)

- MAT 185 Introduction to Symbolic Computations
- MAT 212 Mathematics in the Middle Grades
- MAT 250 Mathematical Modeling
- MAT 251 Posing and Solving Programs in Mathematics
- MAT 282 Ordinary Differential Equations
- MAT 298 Faculty Developed Study
- MAT 299 Student Developed Study
- MAT 332 Introduction to Applied Mathematics
- MAT 351 Independent Study
- MAT 359 Introduction to the Theory of Computation
- MAT 363 History of Mathematics
- MAT 383 Introduction to Mathematics Analysis
- MAT 467 Topics in Mathematics