COLLEGE: ____Arts and Sciences_____

Current Catalog Page(s) Affected ____p. 86 and p. 105_____

Course: Add: ____ Delete: _____ Change: Number ___ Title ____
(check all that apply) SCH _____ Description ____ Prerequisite _____

If new, provide Course Prefix, Number, Title, SCH Value, Description, prerequisite, and lecture/lab hours if applicable. If in current catalog, provide change and attach page with changes in red and provide a brief justification.

Program: BA with Major in Mathematics with Grades 8-12 Certification.
Add: _____ Change: ___X__
Attach new/changed Program of Study description and 4-year plan. If in current catalog, provide change and attach page with changes in red.

See changes in the next pages.

Minor: Add: _____Delete: _____ Change: _____ Attach new/changed minor. If in current catalog, provide change and attach page with changes in red.

Faculty: Add: _____ Delete: _____ Change: _____
Attach new/changed faculty entry. If in current catalog, provide change and attach page with changes in red.

College Introductory Pages: Add information: _____ Change information: _____ .
Attach new/changed information. If in current catalog, provide change and attach page with changes in red.

Approvals:	Signature	Date
Chair
Department Curriculum Committee	_____	_____
Chair
Department	_____	_____
Chair
College Curriculum Committee	_____	_____
Dean	_____	_____

Changes in the program are marked in red.

Degree Requirements for the BA with a Major in Mathematics with Grades 8-12 Certification

1. **Hours Required:** A minimum of **127** semester credit hours (SCH): 45 hours must be advanced, and fulfillment of degree requirements as specified in the "Requirements for Graduation" section of this catalog.

2. **University Core Curriculum: 42** SCH as outlined in the suggested plans and as specified in the "Requirements for Graduation".

3. **Major: 49** SCH and the 3 SCH of Mathematics taken as part of the core. Lower-level requirements include MATH 2413, 2414, 2415, ~~and COSC 2301~~ COSC 1336 and COSC 1136. Advanced requirements include MATH 3310, 3325, 3330, 3360, 3365, 4310, 4335, 4390 and 12 SCH at least 9 of which must be selected from any 4000 level MATH courses.

4. **Supporting Field: 12** SCH in one discipline selected from Biology, Chemistry, Earth and Planetary Sciences, Environmental Science or Physics.

5. **Professional Development: 21** SCH including: EDCI 3301, 3302, 3305, 4993 and EDDP 4324.

6. **Support Area: 3** SCH of EDRD 3320.

Changes in the 4 year degree plan are explained below:

BACHELOR OF ARTS
MAJOR IN MATHEMATICS
WITH GRADES 8th - 12th CERTIFICATION

Following is **one** suggested four-year degree plan. Students are encouraged to see their advisor each semester for help with program decisions and enrollment. Students are responsible for reviewing the **Program of Study Requirements**.

*See Appendix A Core Curriculum and Optional Course Information.

FALL	HOURS	SPRING	HOURS
FRESHMAN YEAR		**FRESHMAN YEAR**	
ENGL 1301 English Composition I	3	ENGL 1302 English Composition II	3
HIST 1301 The U.S. to 1877	3	HIST 1302 The U.S. Since 1877	3
MATH 2413 Calculus I	4	MATH 2414 Calculus II	4
Natural Science*	4	Natural Science*	4
Activity/Wellness*	1	Visual/Performing Arts**	3
Total	**15**		**17**
SOPHOMORE YEAR		**SOPHOMORE YEAR**	
PSCI 2305 American National Govt	3	PSCI 2306 American State Govt	3
MATH 2415 Calculus III	4	MATH 3330 Ord Differential Equations	3
MATH 3365 Discrete Mathematics	3	MATH 3360 Statistical Analysis	3
COSC 1336 Fundamentals of Programming	3	Soc/Behavioral Science*	3
COSC 1136 Fundamentals of Prog. Lab.	1	SPCH 1311 Fundamentals of Speech	3
ENGL Survey of Literature*	3		
Total	**17**		**15**

JUNIOR YEAR

MATH 3310 Intro Linear Algebra	3	
MATH 4335 Advanced Calculus	3	
MATH Math Elective	3	
MATH Advanced Math Elective	3	
Supporting Field[1]	3	
Supporting Field[1]	3	
Total	**18**	

JUNIOR YEAR

MATH 3325 Geometry	3	
MATH 4310 Abstract Algebra	3	
MATH Advanced Math Elective	3	
EDCI 3301 Public School Teaching	3	
EDCI 3302 Language Acq & Develop	3	
Supporting Field[1]	3	
	18	

SENIOR YEAR

MATH 4000 Advanced Math Elective	3	
MATH 4390 Math Middle/High School	3	
EDDP 4324 Teaching Div Stu Pop	3	
EDCI 3305 Methods Mgt&Discipline	3	
Supporting Field[1]	3	
Total	**15**	

SENIOR YEAR

EDRD 3320 Content Reading	3	
EDCI 4993 Teaching Internship	9	
	12	

TOTAL SEMESTER CREDIT HOURS: 127

[1]Supporting Field, select 12 SCH from one discipline selected from Biology, Chemistry, Earth and Planetary Science, Environmental Science or Physics.