



CATALOG YEAR 2006-2008
(Please use separate form for each add/change)

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 page.

Justification: This change shows place of our new course in the program. The justification for adding this course was addressed in a separate document.

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 **126** 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”. **MATH 2371 must be taken as part of the core.**
3. **Major:** **48** SCH and the 3 SCH of Mathematics taken as part of the core. Lower-level requirements include MATH 2413, 2414, 2415 and COSC 2301. 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:

Explanation of changes

The course MATH 2371 will be introduced as soon as possible, right after ENGL 1302. Since the purpose is to prepare students for more advanced courses we switch the old communications requirement to the Fall semester and move a more advanced Mathematics course to the Spring semester. In this case MATH 2371 and MATH 3365 switch semesters. No change in the hours per semester, nor total number of hours is done.

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*	<u>1</u>	Visual/Performing Arts**	<u>3</u>
Total	15		17

SOPHOMORE YEAR	
PSCI 2305 American National Govt	3
MATH 2415 Calculus III	4
MATH 2371 Communications in Math	3
COSC 2301 Fundamentals of Comp Sci	3
ENGL Survey of Literature*	<u>3</u>
Total	16

SOPHOMORE YEAR	
PSCI 2306 American State Govt	3
MATH 3330 Ord Differential Equations	3
MATH 3360 Statistical Analysis	3
Soc/Behavioral Science*	3
MATH 3365 Discrete Mathematics	<u>3</u>
Total	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	<u>3</u>
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	<u>3</u>
Total	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	<u>3</u>
Total	15

SENIOR YEAR	
EDRD 3320 Content Reading	3
EDCI 4993 Teaching Internship	9
Total	12

TOTAL SEMESTER CREDIT HOURS: 126

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