CATALOG YEAR _____2008–2009_____
(Please use a separate form for each add/change/delete)

COLLEGE/SCHOOL/SECTION: __Arts and Sciences_____
Current Catalog Page(s) Affected: pp. _____92, 93, 125_____

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

If new, provide Course Prefix, Number, Title, SCH Value, Description, Prerequisite, Lecture/Lab hours (if applicable), and **student learning outcomes**. If in current catalog, copy and paste the text from the on-line catalog and indicate changes in red and provide a brief justification.

Program: Add: **_____** Change: __✓__ Attach new/changed Program of Study description and 4-year plan. If in current catalog, copy and paste the text from the on-line catalog and indicate changes in red.

BSIS with a Major in Mathematics with Grades 4th–8th Certification (See attached / following pages for details and justification.)

Minor: Add: **_____** Delete: **_____** Change: **_____** Attach new/changed minor.
If in current catalog, copy and paste the text from the on-line catalog and indicate changes in red.

Faculty: Add: **_____** Delete: **_____** Change: **_____** Attach new/changed faculty entry.
If in current catalog, copy and paste the text from the on-line catalog and indicate changes in red.

College Introductory Pages: Add information: **_____** Change information: **_____**
Attach new/changed information. If in current catalog, copy and paste the text from the on-line catalog and indicate changes in red.

Other: Add information: **_____** Change information: **_____**
Attach new/changed information. If in current catalog, copy and paste the text from the on-line catalog and indicate changes in red.

Approvals: Signature   Date

Chair   _____   _____
Department Curriculum Committee

Chair   _____   _____
Department

Chair   _____   _____
College Curriculum Committee

Dean   _____   _____

COAS, DMPS, BSIS with a Major in Mathematics with Grades 4th–8th Certification, Change, Pages 92, 93, 125

Pages 92, 93:

Degree Requirements for the BSIS with a Major in Mathematics with Grades 4-8 Certification (2007)

1. ~~**Hours Required:** A minimum of **131** 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. ~~**Science Elective: 4** SCH from any science discipline.~~
4. ~~**Field of Study: 12** SCH including SOCI 3310, MATH 1350, 1351, and PSYC 2312~~
5. ~~**Major: 46** SCH including MATH 1316, 2413, 2414, 2415, 3310, 3320, 3360, 3365, 4310, 4390, COSC 1136 and COSC 1336 and 9 SCH selected from 3000-4000 level MATH courses..~~
6. ~~**Professional Development: 21** SCH including EDCI 3301, 3302, 3305, 4993 and EDDP 4324.~~
7. ~~**Support Area: 6** SCH, EDRD 3309 and EDRD 3320~~

Degree Requirements for the BSIS with a Major in Mathematics with Grades 4th–8th Certification

8. **Hours Required:** A minimum of **123** 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.
9. **University Core Curriculum: 42** SCH as outlined in the suggested plans and as specified in the "Requirements for Graduation". (The course option for Mathematics requirement of the core is MATH 2412 Pre-Calculus with 1 SCH excess included in the 38 SCH requirements for the major.) MATH 2371 must be taken as part of the Communication's core.
10. **Science Elective: 4** SCH from any science discipline.
11. **Field of Study: 12** SCH including SOCI 3310, MATH 1350, 1351, and PSYC 2312
12. **Major: 38** SCH (1 SCH excess from MATH 2412 taken as part of the core is included here.) Lower-level requirements include COSC 1336, 1136, MATH 2330, 2413, 2414 and 2415. Advanced requirements include MATH 3310, 3360, 3365, 4310, 4390 and 3 SCH selected from any 4000 level MATH courses.
13. **Professional Development: 21** SCH including EDCI 3301, 3302, 3305, 4993 and EDDP 4324.
14. **Support Area: 6** SCH, EDRD 3309 and EDRD 3320

Justifications for changes to the degree requirements for BA in a Major in Mathematics with Grades 4th–8th Certification are:

1. Degree requirements cannot be further reduced without adversely affecting student preparation for classroom teaching and success on the licensure exams (TExES) at least not without significant course restructuring in both pedagogy and content areas.
2. The course content of MATH 2412 is essentially the same as the content of the course sequence MATH 1314 and 1316. However, if a student is unprepared to take or cope with the pace of MATH 2412 then the student may fulfill this requirement by taking the sequence MATH 1314 and MATH 1316.

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Page 125:

BACHELOR OF SCIENCE IN INTERDISCIPLINARY STUDIES
MAJOR IN MATHEMATICS
WITH GRADES 4th - 8th 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	1314	College Algebra	3	MATH	1316	Trigonometry	3
COMM	-	Communication	3	PSCI	2305	American State Government	3
-	-	Natural Science*	4	-	-	Natural Science*	4
-	-	Activity/Wellness*	1	-	-	Visual/Performing Arts*	3
Total			**17**	-			**19**
SOPHOMORE YEAR				**SOPHOMORE YEAR**			
COSC	1136	Fundamentals of Programming Lab	1	PSCI	2306	American State Govt	3
COSC	1336	Fundamentals of Programming	3	MATH	1351	Funds of Math II	3
MATH	1350	Funds of Math I	4	MATH	3320	Modern Geometry	3
MATH	2413	Calculus I	4	MATH	2414	Calculus II	4
ENGL	-	Survey of Literature*	3	-	-	Soc/Behavioral Science*	3
SCI	-	Science Elective[1]	3	-	-	-	
Total			**18**	-			**16**
JUNIOR YEAR				**JUNIOR YEAR**			
MATH	2415	Calculus III	4	MATH	3360	Statistical Analysis	3
MATH	3310	Intro to Linear Alg	3	MATH	4310	Abstract Algebra	3
MATH	3365	Discrete Mathematics	3	PSYC	2312	Developmental Psyc	3
SOC	3310	Sociology of Education	3	MATH	-	Advanced Math Elective	3
EDRD	3309	Teaching Rdg in Schools	3	EDCI	3301	Public School Teaching	3
-	-	-	-	EDCI	3302	Language Acq&Develop	3
Total			**16**	-			**18**

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SENIOR YEAR

EDCI	3305	Methods, Mgt&Discipline	3	EDCI	4993	Teaching Internship	9
EDDP	4324	Teaching Div Stu Pop	3	MATH	4390	Math in Middle&High Sch	3
EDRD	3320	Content Reading	3	-	-	-	
MATH	-	Advanced Math Elective	3		-	-	
MATH	-	Advanced Math Elective	3		-	-	
Total			**15**	-			**12**

TOTAL SEMESTER CREDIT HOURS: 131

[1]Science,select 4 SCH from any science discipline.

Actual degree plans may vary depending on availability of courses in a given semester.

Some courses may require prerequisites not listed.

Page 125:

BACHELOR OF SCIENCE IN INTERDISCIPLINARY STUDIES
MAJOR IN MATHEMATICS
WITH GRADES 4th–8th 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	2412	Pre-Calculus	4	COSC	1336	Fundamentals of Programming	3
				COSC	1136	Fundamentals of Programming Lab	1
		Natural Science*	4			Natural Science*	4
		Activity/Wellness*	1			Visual/Performing Arts*	3
Total			**15**				**17**
SOPHOMORE YEAR				**SOPHOMORE YEAR**			
PSCI	2305	American National Government	3	PSCI	2306	American State Government	3
MATH	1350	Funds of Math I	3	MATH	1351	Funds of Math II	3
MATH	2371	Communications in Mathematics	3	MATH	2330	Elementary Geometry	3
MATH	2413	Calculus I	4	MATH	2414	Calculus II	4
SCI		Science Elective[1]	4	ENGL		Survey of Literature*	3
Total			**17**				**16**
JUNIOR YEAR				**JUNIOR YEAR**			
MATH	2415	Calculus III	4	MATH	3360	Statistical Analysis	3
MATH	3310	Introduction to Linear Algebra	3	MATH	4310	Abstract Algebra	3
MATH	3365	Discrete Mathematics	3	PSYC	2312	Developmental Psyc	3
SOC	3310	Sociology of Education	3	EDCI	3301	Public School Teaching	3
EDRD	3309	Teaching Rdg in Schools	3	EDCI	3302	Language Acq&Develop	3
Total			**16**				**15**

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SENIOR YEAR

MATH	4000	Advanced Math Elective	3
EDCI	3305	Methods, Mgt&Discipline	3
EDDP	4324	Teaching Div Stu Pop	3
EDRD	3320	Content Reading	3
		Soc/Behavioral Science*	3
Total			**15**

SENIOR YEAR

MATH	4390	Math in Middle&High Sch	3
EDCI	4993	Teaching Internship	9
			12

TOTAL SEMESTER CREDIT HOURS: 123

[1]Science, select 4 SCH from any science discipline.

Actual degree plans may vary depending on availability of courses in a given semester.
Some courses may require prerequisites not listed.