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.   _____86, 104_____

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.

BA with a Major in Mathematics (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   _____   _____

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~~Degree Requirements for the BA with a Major in Mathematics~~ ~~(2007)~~

1. ~~**Hours Required:** A minimum of **124** 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: 52** SCH and the 3 SCH of Mathematics taken as part of the core. Lower-level requirements include MATH 2413, 2414 2415 and COSC 1136 and COSC 1336. Advanced requirements include MATH 3310, 3330, 3360, 3365, 4310, 4335 and 21 SCH with at least 18 SCH from MATH 4305, 4315, 4330, 4340, 4345, 4350, 4355, 4360, 4395.~~
4. ~~**Minor: A minimum of 18 SCH from one discipline** at least twelve of which must be at the 3000-4000 level. See Appendix B.~~
5. ~~**Electives: 12** SCH, at the 3000-4000 level.~~

Degree Requirements for the BA with a Major in Mathematics

1. **Hours Required:** A minimum of **120** 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". (The course option for Mathematics requirement of the core is MATH 2413 Calculus I with 1 SCH excess included in the 40 SCH requirements for the major.) MATH 2371 must be taken as part of the Communication's core.
3. **Major: 40** SCH (1 SCH excess from MATH 2413 taken as part of the core is included here.) Lower-level requirements include COSC 1336, 1136, MATH 2414 and 2415. Advanced requirements include MATH 3310, 3330, 3360, 3365, 4310, 4335, 4345 and 6 SCH selected from any 4000 level MATH courses.
4. **Minor: A minimum of 18 SCH from one discipline** at least twelve of which must be at the 3000-4000 level. See Appendix C.
5. **Liberal Arts Electives: 12** SCH at least six of which must be at the 3000-4000 level and selected from arts, economics, humanities, natural sciences, and social sciences other than the fields of studies in the major or minor programs, unless seeking a double major.
6. **Electives: 8** SCH.

Justifications for changes to the degree requirements for BA in a Major in Mathematics are:
1. Comply with legislatively mandated goal to bring the degree program to 120 SCH as requested by the University;
2. Provide the students with an academic preparation that is consistent with the liberal arts philosophy of higher education.
3. Include the identified QEP Capstone Course as a required course in the program.

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BACHELOR OF ARTS
MAJOR IN MATHEMATICS (2007)

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.

** See Appendix C for approved list of minors and requirements.

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**			
ENGL	-	Survey of Literature*	3	MATH	3330	Differential Equations	3
COSC	1136	Fundamentals of Programming Lab	1	MATH	3360	Statistical Analysis	3
COSC	1336	Fundamentals of Programming	3	MATH	3365	Discrete Mathematics	3
MATH	2371	Communications in Math	3	PSCI	2306	American State Government	3
MATH	2415	Calculus III	4	-	-	Minor Curriculum*	3
PSCI	2305	American National Govt	3	-	-	-	
Total			17	-			15
JUNIOR YEAR				**JUNIOR YEAR**			
MATH	4335	Advanced Calculus	3	MATH	-	Advanced Math Elective[1]	3
MATH	3310	Linear Algebra	3	MATH	4310	Abstract Algebra	3
-	-	Soc/Behavioral Science*	3	-	-	Adv Minor Curriculum**	3
-	-	Minor Curriculum**	3	-	-	Advanced Elective	3
MATH	-	Advanced Math Elective[1]	3	-	-	Advanced Elective	3
Total			15	-			15
SENIOR YEAR				**SENIOR YEAR**			

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MATH	-	Advanced Math Elective[1]	3	MATH	-	Advanced Math Elective[1]	3
MATH	-	Advanced Math Elective[1]	3	MATH	-	Advanced Math Elective[1]	3
MATH	-	Advanced Math Elective[1]	3	-	-	Advanced Elective	3
	-	Adv Minor Curriculum**	3		-	Adv Minor Curriculum**	3
	-	Advanced Elective	3		-	Adv Minor Curriculum**	3
Total			**15**	-			**15**

TOTAL SEMESTER CREDIT HOURS: 124

[1]Advanced Math Electives, select 21 SCH with at least 18 SCH from MATH 4305, 4315, 4330, 4340, 4345, 4350, 4355, 4360, 4395.

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

Some courses may require prerequisites not listed.

BACHELOR OF ARTS
MAJOR IN MATHEMATICS

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.*

** **See** Appendix C for approved list of minors and requirements.

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**			
ENGL		Survey of Literature*	3	MATH	3330	Differential Equations	3
COSC	1136	Fundamentals of Programming Laboratory	1	MATH	3360	Statistical Analysis	3
COSC	1336	Fundamentals of Programming	3	MATH	3365	Discrete Mathematics	3
MATH	2371	Communications in Mathematics	3	PSCI	2306	American State Government	3
MATH	2415	Calculus III	4			Minor Curriculum*	3
PSCI	2305	American National Govt	3				
Total			**17**				**15**
JUNIOR YEAR				**JUNIOR YEAR**			
MATH	4335	Advanced Calculus	3	MATH	4310	Abstract Algebra	3
MATH	3310	Introduction to Linear Algebra	3			Elective	3
		Soc/Behavioral Science*	3			Elective	3
		Minor Curriculum**	3			Adv Minor Curriculum**	3
		Liberal Arts Elective[2]	3			Liberal Arts Elective[2]	3
Total			**15**				**15**
SENIOR YEAR				**SENIOR YEAR**			

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MATH		Advanced Math Elective[1]	3	MATH	4345	Complex Variables	3
MATH		Advanced Math Elective[1]	3	MATH	3195	Seminar (Free Elective)	1
		Advanced Liberal Arts Elective[2]	3			Advanced Liberal Arts Elective[2]	3
		Adv Minor Curriculum**	3			Adv Minor Curriculum**	3
MATH	3195	Seminar (Free Elective)	1			Adv Minor Curriculum**	3
Total			**13**				**13**

TOTAL SEMESTER CREDIT HOURS: 120

[1]Advanced Math Electives: select 6 SCH from any 4000 level MATH courses.

[2] **Liberal Arts Electives:** select from (at least 6 SCH from 3000-4000 level) arts, economics, humanities, natural sciences, and social sciences other than the fields of studies in the major or minor programs, unless seeking a double major.

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