

UCC Document # <u>111</u>
College Document # <u>27</u>
Review Type: Edit Exp XX Full

CATALOG YEAR 2014-2015

Program: Delete: ___ Add: ___ Change: _x__ Attach new/changed Program of Study description and 4-year plan. If in current online catalog, provide change and attach text with changes in red.

Minor: Add: ___ Delete: __ Change: ___ Attach new/changed minor. If in current online catalog, provide change and attach text with changes in red.

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

Other: Add information: ___ Change information: ___ Attach new/changed information. If in current online catalog, provide change and attach text with changes in red.

BACHELOR OF SCIENCE 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; responsible for reviewing the **Program of Study Requirements**; and must meet **foreign language** and **writing intensive course** requirements for graduation. See Academic Regulations-Undergraduate online.

** See *Appendix C* for approved list of minors and requirements. Instead of a minor, students may complete 18 SCH of electives, 12 SCH of which must be at the 3000-4000 level, from any discipline, except the major field, outside the College of Nursing and Health Sciences.

FALL		OURS	SPRING		HOURS
FRESHMAN		_	FRESHMAN		
	English Composition I	3		English Composition II	3
	The U.S. To 1877	3		The U.S. Since 1877	3
MATH 2413		4	MATH 2414		4
	Life&Physical Science*	3		Life&Physical Science *	3
	Life&Physical Science Lab*	1		Life&Physical Science Lab	1
UNIV 1101	Learning in a Global Context I	<u>1</u>	UNIV 1102	Learning in a Global Context II	
Total		15			15
SOPHOMOR	RE YEAR		SOPHOMORE YEAR		
	Funds of Prog Lab	1	CAO	Communication*	3
	Funds of Programming	3	MATH 3360	Statistical Analysis	3
	Language, Philosophy & Culture*	3		Discrete Mathematics	3
MATH 2371	• •	3		American State Govt	3
MATH 2415		4	1201 2000	Creative Arts*	<u>3</u>
	American National Govt	<u>3</u>		Creative Tires	<u> </u>
Total		<u>-</u> 17			15
JUNIOR YEAR JUNIOR YEAR					
		2			2
	Linear Algebra	3		Abstract Algebra	3
	Differential Equations	3	MATH	Advanced Math Elective ¹	3
MA1H 4335	Advanced Calculus	3		Foreign Language/Study Abroa	
	Foreign Language/Study Abroac			Minor/Gen Elective **	3
	Soc/Behavioral Science*	3		Minor/Gen Elective **	3
Total		15			15
	SENIOR YEAR		SENIOR YEAR		
MATH	Advanced Math Elective ¹	3	MATH 4345	Complex Variables	3
MATH	Advanced Math Elective ¹	3	MATH	Advanced Math Elective ¹	3
MATH	Advanced Math Elective ¹	3	MATH 3195	Seminar (Free Elective)	1
MATH 3195	Seminar (Free Elective)	-1		Adv Minor/Gen Elective **	3
	Adv Minor/Gen Elective **	3		Adv Minor/Gen Elective **	<u>3</u>
	Adv Minor/Gen Elective **	3 15			
Total		1 5			13

TOTAL SEMESTER CREDIT HOURS: 120

¹Math electives, select 21 15 SCH at least 18 of which must be from any 4000 level math courses, excluding MATH 4390.

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

Some courses may require prerequisites not listed.

^{*}See Appendix A Core Curriculum and Optional Course Information.

Degree Requirements for the BS 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". **MATH 2371 must be taken as part of the Core.**
- **3. Foreign Language/Study Abroad:** 6 SCH in course work (not credit by exam) above the university's foreign language admission requirement. Thus, students who meet the university's foreign language admission requirement by earning 6 hours of credit by exam, may take 6 SCH in the same language but at the intermediate level or above, or they may take 6 SCH of another foreign language at the introductory level. This requirement may also be met by earning 6 SCH in any subject while participating in a TAMIU-approved Study Abroad program while living for at least 5 weeks in a non-English speaking country
- **4. Major:** 55 52 SCH including 1 SCH excess in core, COSC 1136, 1336, MATH 2371, 2414, 2415, MATH 3310, 3330, 3360, 3365, 4310, 4335, 4345 and 21 SCH at least 18 15 SCH of which must be selected from any 4000 level MATH courses, excluding MATH 4390.
- **5. Minor:** A minimum of **18** SCH from one discipline at least twelve of which must be at the 3000-4000 level. See Appendix C. Instead of a minor, students may complete 18 SCH of electives, 12 SCH of which must be at the 3000-4000 level, from any discipline, except the major field, outside the College of Nursing and Health Sciences.
- 6. Electives: 2 SCH, at the 3000-4000 level to include 1 SCH Science lab.

Approvals:	Signature		Date	
Chair	Qingwen Ni	Digitally signed by Qingwen Ni DN ca-Qingwen Ni O-TAMiU ou-TAMiU, email-gniatamuredu c=US Date: 2013 1202 15 99 48 -05 00		
Department Curriculum Committee				
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