



UCC Document # 110

College Document # 26

Review Type: ___ Edit ___ Exp XX Full

CATALOG YEAR 2014-2015

COLLEGE/SCHOOL/SECTION: College of Arts and Sciences

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 ARTS
MAJOR IN MATHEMATICS**

Following is a 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 A Core Curriculum and Optional Course Information*.

**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	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
	Life&Physical Science*		Life&Physical Science *
	1		3
	Life&Physical Science Lab*		Life&Physical Science Lab
	1		1
UNIV 1101 Learning in a Global Context I	<u>1</u>	UNIV 1102 Learning in a Global Context II	1
			Creative Arts*
			<u>3</u>
Total	15		18
SOPHOMORE YEAR		SOPHOMORE YEAR	
	Language,Philosophy&Culture*	CAO	Communication*
	3		3
COSC 1136 Funds of Progr Lab	1	MATH 3360 Statistical Analysis	3
COSC 1336 Fundamentals of Progr	3	MATH 3365 Discrete Mathematics	3
MATH 2371 Communications in Math	3	PSCI 2306 American State Govt	3
MATH 2415 Calculus III	4		Foreign Language/Study Abroad
PSCI 2305 American National Govt	<u>3</u>		<u>3</u>
Total	17		15
JUNIOR YEAR		JUNIOR YEAR	
MATH 4335 Advanced Calculus	3	MATH 4310 Abstract Algebra	3
MATH 3310 Intro to Linear Algebra	3	Advanced Liberal Arts Elective¹	3
MATH 3330 Ord Diff Equations	3	Advanced Liberal Arts Elective¹	3
	Soc/Behavioral Science*		Minor/General Elective**
	3		3
	Foreign Language/Study Abroad		Minor/General Elective**
	<u>3</u>		3
Total	15		15
SENIOR YEAR		SENIOR YEAR	
	Elective	MATH 4345 Complex Variables	3
	4	MATH 3195 Seminar (Free Elective)	1
	Adv Liberal Arts Elective¹		Adv Liberal Arts Elective¹
	3		3
	Adv Minor/Gen Elective**		Adv Minor/Gen Elective**
	3		3
	Adv Minor/Gen Elective**		Adv Minor/Gen Elective**
	3		<u>3</u>
MATH 3195 Seminar (Free Elective)	<u>1</u>		
Total	13		12

TOTAL SEMESTER CREDIT HOURS: 120

¹Liberal Arts Electives, select 12 SCH with at least six at the 3000-4000 level from arts, economics, humanities, natural sciences and social sciences. Courses must be outside the major and minor unless seeking a double major.

²Foreign 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 TAMU-approved Study Abroad program while living for at least 5 weeks in a non-English speaking country.

Changes in green to meet 45 advanced hours required for the degree. See page 5.

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

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](#)". ~~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. Computer Science: 4 SCH in COSC [1136](#), COSC [1336](#).

5. Major: 33 SCH including 1 SCH excess in the core, ~~MATH 2371, MATH 2414, 2415, 3310, 3330, 3360, 3365, 4310, 4335, 4345~~ and ~~3 SCH from any 4000 level MATH course.~~

6. 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, outside the College of Nursing and Health Sciences.

7. General Electives: 12 SCH, ~~at least 6 of which must be~~ at the 3000-4000 level, selected from arts, economics, humanities, natural sciences and social sciences. Courses must be outside the major and minor unless seeking a double major.

8. -Electives: 5 SCH **to include 1 SCH Science Lab.**

Approvals:

Signature

Date

Chair
Department Curriculum Committee

Qingwen Ni

Digitally signed by Qingwen Ni
DN: cn=Qingwen Ni, o=TAMU, c=US
Date: 2014.02.11 14:02:46-0500

Chair
Department

Rohitha Goonatilake,
Ph.D.

Digitally signed by Rohitha Goonatilake
DN: cn=Rohitha Goonatilake, o=Texas A&M International University,
ou=Department of Learning Mathematics, c=US
Date: 2014.02.11 15:18:19-0600

Chair
College Curriculum Committee

Lynne L. Manganaro

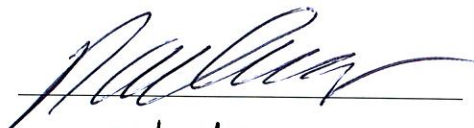
Digitally signed by Lynne L. Manganaro
DN: cn=Lynne L. Manganaro, o=ou,
email=lynne.manganaro@tamui.edu, c=US
Date: 2014.01.27 16:38:09 -0600

Dean

Thomas R.
Mitchell

Digitally signed by Thomas R. Mitchell
DN: cn=Thomas R. Mitchell, o=Texas A&M International University, ou=College of Arts & Sciences, email=tmitchell@tamui.edu, c=US
Date: 2014.01.28 16:25:06 -0600

Provost



Date

2/6/14

To meet 45 advanced hours required for the degree.

From: Goonatilake, Hoonandara R

Sent: Thursday, April 10, 2014 10:39 AM

To: Trevino, Mary T.

Cc: Lin, Runchang

Subject: RE: BA in Mathematics Degree Program, Catalog 2014-2015

Thanks a lot!

>> The change should be to "Advanced". Yes

>> Should the stipulation that the courses meeting the requirement should come from arts, economics, humanities, natural sciences and social sciences? Yes

We settle with them for now. Any additional concerns will be addressed until we further review them.

Thanks,

Rohitha Goonatilake

From: Trevino, Mary T.

Sent: Thursday, April 10, 2014 10:21 AM

To: Goonatilake, Hoonandara R

Subject: RE: BA in Mathematics Degree Program, Catalog 2014-2015

The change should be to "Advanced".

Should the stipulation that the courses meeting the requirement should come from arts, economics, humanities, natural sciences and social sciences?

From: Goonatilake, Hoonandara R

Sent: Thursday, April 10, 2014 10:17 AM

To: Trevino, Mary T.

Subject: BA in Mathematics Degree Program, Catalog 2014-2015

Dear Mary,

I think it is only way that we can address this issue. The following revised in red for junior year is suggested for BA in Mathematics.

JUNIOR YEAR JUNIOR YEAR

MATH 4335 Advanced Calculus 3 MATH 4310 Abstract Algebra 3

MATH 3310 Intro to Linear Algebra 3 Liberal Arts Elective 3

MATH 3330 Ord Diff Equations 3 Liberal Arts Elective 3

Soc/Behavioral Science* 3 Minor/General Elective** 3

Foreign Language/Study

Abroad

3 Minor/General Elective** 3

Total 15 15

Thanks,

Rohitha Goonatilake