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CATALOG YEAR 2014-2015

COLLEGE/SCHOOL/SECTION: College of Arts&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.

New Program

BACHELOR OF ARTS
MAJOR IN MATHEMATICS
WITH GRADES 7 - 12 CERTIFICATION
2014-2015

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**.

*See **Appendix A** Core Curriculum and Optional Course Information.

FRESHMAN YEAR								
FALL					**SPRING**			
ENGL	1301	English Composition I	3	ENGL	1302	English Composition II	3	
MATH	2413	Calculus I* (1 hr for degree)	4	HIST	1302	The U.S. Since 1877	3	
HIST	1301	The U.S. to 1877	3	PSYC2314		~~Social/Behavioral Science*~~ Lifespan Growth&Devel	3	*
UNIV	1101	Learning in a Global Context I	1	UNIV	1102	Learning in a Global Context II	1	
		Creative Arts*	3	MATH	2414	Calculus II	4	
CAO*		Speech or Spoken Language*	3	EDCI	1102	Intro to Teaching Profession	1	
Total			17	**Total**			15	
SOPHOMORE YEAR								
PSCI	2305	American National Govt	3	PSCI	2306	American State Govt	3	

*Per email from R. Goonatilake 2/13/14

CAO*		Life & Physical Sciences Lab*	1
		Life & Physical Sciences*	3
		Lang, Philosophy, & Culture*	3
MATH	2415	Calculus III	4
MATH	2371	Communications in Math	3
EDCI	2210	Foundations of Education	2
Total			**19**

		Life & Physical Sciences*	3
		Degree Requirement-Sci Lab*	1
MATH	3330	Ordinary Diff Equations	3
EDCI	3224	Teaching in Diverse Settings[1]	2
COSC	1336	Fundtals of Programming	3
COSC	1136	Fundtals of Programming Lab	1
Total			**16**

JUNIOR YEAR

EDCI	3301	Assessment for Instr Design	3
EDCI	3302	Teaching English Lang Lrnrs	3
		Foreign Lang/Study Abroad[2]	3
MATH	3310	Intro to Linear Algebra	3
MATH	3360	Statistical Analysis	3
MATH	3365	Discrete Mathematics	3
Total			**18**

EDRD	3320	Content Reading	3
		Foreign Lang/Study Abroad[2]	3
MATH	3325	Geometry	3
MATH	4310	Abstract Algebra	3
MATH	4335	Advanced Calculus	3
Total			**15**

SENIOR YEAR

MATH	4390	Math Middle/High School	3
EDCI	3315	Eff Instr Diverse Populations	3
EDCI	4310	Engaging Learners	3
		Advanced General Elective	2
Total			**11**

EDSE	4350	Incl Pract Exceptl Chld	3
EDCI	4693	Student Teaching[3]	6
Total			**9**

TOTAL SEMESTER CREDIT HOURS 120

[1] Students must apply for admission to the College of Education while enrolled in EDCI **3224**.
[2] Foreign Language Study Abroad, select 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.
[3] Students are admitted to student teaching only after passing the certification exam to teach secondary mathematics.
Actual degree plans may vary depending on availability of courses in a given semester.
Some courses may require prerequisites not listed.

Changes on Degree Requirements

Degree Requirements for the BA with a Major in Mathematics with Grades 7-12 Certification

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: 33** SCH and the 1 SCH excess of Mathematics taken as part of the core; MATH 2414, 2415, 3310, 3325; 3330, 3360, 3365, 4310, 4335, 4390.

5. **Professional Education Core: 26** SCH including: EDCI 1102, 2201, 3224, 3301, 3302, 3315, 4310, 4693 and EDSE 4350 ~~and 3320.~~

6. ~~**Support Area: 3 SCH of EDRD 3320.**~~ **Degree Requirement: 3** SCH of ~~MATH 2317~~ and **1** SCH of Sci-Lab. EDRD 3320 and MATH 2371.

7. **Computer Science: 4** SCH of COSC 1136, 1336.

8. **Advanced General Electives:** ~~6 SCH with at least 3 SCH~~ **2** SCH at the 3000-4000 level.

Changes on old Degree Program

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BACHELOR OF ARTS
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WITH GRADES 7 - 12 CERTIFICATION

</div>

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.

See Appendix A Core Curriculum and Optional Course Information.

Freshman Year

Fall Semester

Course	Hours
ENGL 1301 - English Composition I	3
HIST 1301 - The U.S. to 1877	3
MATH 2413 - Calculus I	4
~~Natural Science*~~ UNIV 1101 Learning in a Global Context I	~~4~~1
~~Activity/Wellness*~~ UNIV Creative Arts*	~~1~~3
CAO Speech or Spoken Language	3
Total	~~15~~17

Spring Semester

Course	Hours
ENGL 1302 - English Composition II	3
HIST 1302 - The U.S. Since 1877	3
MATH 2414 - Calculus II	4
~~Natural Science*~~ HIST Social/Behavioral Science*	~~4~~3
~~Visual/Performing Arts*~~ UNIV 1102 Learning in a Global Context II	~~3~~1
EDCI 1102 Intro to Teaching Profession	1
Total	~~18~~15

Sophomore Year

Fall Semester

Course	Hours
~~ENGL – Survey of Literature*~~CAO Life & Physical Sciences	3
CAO Life & Physical Sciences Lab	1
CAO Lang, Philosophy, & Culture	3
MATH 2415 - Calculus III	4
PSCI 2305 - American National Govt	3
MATH 2371 Communications in Math	3
EDCI 2210 Foundations of Education	2
~~PSYC 2314 Lifespan Growth&Develop~~	~~3~~
Total	~~15~~19

Spring Semester

Course	Hours
COSC 1136 - Fundtls of Progrmg Lab	1
COSC 1336 - Fundtls of Progrmg	3
EDCI 3224 Teaching in Diverse Settings[1]	2
~~MATH 2371 - Communications in Math~~	~~3~~
MATH 3330 - Differential Equations	3
PSCI 2306 - American State Government	3
Life & Physical Sciences*	3
Degree Requirement-Sci Lab*	1
Total	~~15~~16

Junior Year

Fall Semester

Course	Hours
EDCI 3301 - Assessment for Instr Design	3
EDCI 3302 - Tchng English Lang Lrnrs	3
Foreign Language/Study Abroad[2]	3
MATH 3310 - Introduction to Linear Algebra	3
MATH 3360 - Statistical Analysis	3
MATH 3365 - Discrete Mathematics	3
Total	18

Spring Semester

Course	Hours
EDRD 3320 Content Reading	3
Foreign Language/Study Abroad[2]	3
MATH 3325 - Geometry	3
MATH 4310 - Abstract Algebra	3
MATH 4335 - Advanced Calculus	3
Total	15

Senior Year

Fall Semester

Course	Hours
MATH 4390 - Math Middle/High School	3
EDCI 3315 - Eff Instr Diverse Populations	3
EDCI 4310 - Engaging Learners	3
~~General Elective~~	~~3~~
Advanced General Elective	~~3~~2
Total	~~15~~11

Spring Semester

Course	Hours
EDSE 4350 - Incl Pract Exceptl Chld	3
EDCI 4693 - Student Teaching[3]	6
Total	9

TOTAL SEMESTER CREDIT HOURS: 120

[1]Students must apply for admission to the College of Education while enrolled in EDCI 3324.
[2]Foreign Language/Study Abroad, select 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.

[3]Students are admitted to student teaching only after passing the certification exam to teach secondary mathematics.

Approvals:	Signature	Date
Chair Department Curriculum Committee	**Qingwen Ni** Digitally signed by Qingwen Ni DN: cn=Qingwen Ni, o=TAMIU, ou=TAMIU, email=qni@tamiu.edu, c=US Date: 2013.11.19 16:50:04 -06'00'	
Chair Department	**Rohitha Goonatilake, Ph.D.** Digitally signed by Rohitha Goonatilake, Ph.D. DN: cn=Rohitha Goonatilake, Ph.D., o=Texas A and M International University (TAMIU), ou=Department of Engineering, Mathematics and Physics/COAS, email=harag@tamiu.edu, c=US Date: 2013.11.19 17:00:16 -06'00'	
Chair College Curriculum Committee	**Lynne L. Manganaro** Digitally signed by Lynne L. Manganaro DN: cn=Lynne L. Manganaro, o, ou, email=lynne.manganaro@tamiu.edu, c=US Date: 2014.01.27 16:37:13 -06'00'	
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@tamiu.edu, c=US Date: 2014.01.28 16:24:31 -06'00'	

04/2011

Provost's Signature
Date