



**CATALOG YEAR 2014-2015**  
 (Please use separate form for each add/change)

COLLEGE/SCHOOL : College of Arts and Sciences  
 Current Catalog Page(s) Affected:

**Program:** Add: \_\_\_ Change: X 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.

**Degree Requirements for the BS with a Major in Science 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".
3. **MATH:** 4 SCH of ~~MATH 2412~~ designated as MATH 1342 and 1 SCH surplus credit from core. (see page 3)
4. **Major:** 45 SCH and the 7 SCH of BIOL 1306/1106 and CHEM 1311 taken as part of the core. Requirements from the four science areas include: **Earth and Space Science** – GEOL 1303/1103; **Life Science** - 4 SCH from BIOL 1311/1111, 1413 or 2421; and BIOL 3406, 3410, 3412, 3413; **Physical Science** - PHYS 1301/1101, 1302/1102; **Chemical Science** - CHEM 1111, 1412 and 2423. Additional requirement of 4 SCH from any advanced BIOL, CHEM or GEOL.
5. **Professional Education Core:** 26 SCH including EDCI 1102, 2210, 3224, 3301, 3302, 3315, 4310, 4693, and EDSE 4350.
6. **Support Area:** 3 SCH of EDRD 3320.
- ~~7. General Elective: 1 SCH.~~

Justification: Changes to degree to match new core. No changes in 120 SCHs.

Approvals:

Chair  
 Department Curriculum Committee

Signature

Neal McReynolds

Digitally signed by Neal McReynolds  
 DN: cn=Neal McReynolds, o=Texas A&M International University,  
 ou=Department of Biology and Chemistry, email=nmcreynolds@tamiu.edu,  
 c=US  
 Date: 2013.12.16 10:03:17 -06:00

Date

Chair  
 Department

Daniel Mott

Digitally signed by Daniel Mott  
 DN: cn=Daniel Mott, o=Texas A M International University,  
 ou= Biology and Chemistry, email =dmott@tamiu.edu, c=US  
 Date: 2014.02.03 14:44:09 -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: 2014.02.10 15:10:59 -06'00'

Dean

Frances Bernat

Digitally signed by Frances Bernat  
 DN: cn=Frances Bernat, o=COAS, ou=Public Affairs and  
 Social Research, email=frances.bernat@tamiu.edu, c=US  
 Date: 2014.02.10 16:34:02 -06'00'

  
 Provost's Signature  
 Date \_\_\_\_\_

**BACHELOR OF SCIENCE  
MAJOR IN SCIENCE  
WITH GRADES 7 - 12 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; 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.*

	<b>HOURS</b>	<b>SPRING</b>	<b>HOURS</b>
<b>FRESHMAN YEAR</b>		<b>FRESHMAN YEAR</b>	
BIOL 1306 Principles of Biology I	3	BIOL 1312 Biology Elective <sup>1</sup>	4
BIOL 1106 Principles of Biology I Lab	1	1412	
CHEM 1311 General Chemistry I	3	CHEM 1312 General Chemistry II	<del>3</del> 4*
CHEM 1111 General Chemistry I Lab	1	<del>CHEM 1112 General Chemistry II Lab</del>	<del>1</del>
ENGL 1301 English Composition I	3	ENGL 1302 English Composition II	3
HIST 1301 The U.S. to 1877	3	MATH 2412 Pre-Calculus	4
PSCI 2305 American National Govt	3	EDCI 1102 Intro to Teaching Profession	1
UNIV 1101 Learning in a Global Context I	1	UNIV 1102 Learning in a Global Context II	1
<b>Total</b>	<b>18</b>		<b>17</b>
		<i>*Course was not split in Core development process.</i>	
<b>SOPHOMORE YEAR</b>		<b>SOPHOMORE YEAR</b>	
HIST 1302 The U.S. Since 1877	3	PHYS 1302 General Physics II	3
CHEM 2423 Organic Chemistry	4	PHYS 1102 General Physics II Lab	1
PHYS 1301 General Physics I	3	PSCI 2306 American State Govt	3
PHYS 1101 General Physics I Lab	1	MATH 1342 Introductory Statistics	3
EDCI 2210 Foundations of Education	2	EDCI 3224 Teaching in Diverse Settings <sup>2</sup>	2
PSYC 2314 Lifespan Growth & Develop	3	Creative Arts*	3
<del>Activity/Wellness</del>	<del>1</del>		
<b>Total</b>	<b>16</b>		<b>15</b>
<b>JUNIOR YEAR</b>		<b>JUNIOR YEAR</b>	
BIOL 3413 Genetics	4	BIOL 3410 Ecology	4
ENGL Language, Philosophy, Culture*	3	BIOL 3412 Cell Biology	4
GEOL 1303 Physical Geology	3	ENGL 2311 Technical Writing	3
GEOL 1103 Physical Geology Lab	1	EDRD 3320 Content Reading	3
EDCI 3301 Assessment for Instr Design	3	<del>General Elective</del>	<del>1</del>
EDCI 3302 Tchng English Lang Lrnrs	3		
<b>Total</b>	<b>17</b>		<b>15-14</b>
<b>SENIOR YEAR</b>		<b>SENIOR YEAR</b>	
BIOL 3406 Evolution	4	EDSE 4350 Incl Pract Exceptl Children	3
Science Elective <sup>3</sup>	4	EDCI 4693 Student Teaching <sup>4</sup>	6
EDCI 3315 Eff Instr Diverse Populations	3		
EDCI 4310 Engaging Learners	3		
<b>Total</b>	<b>14</b>		<b>9</b>

**TOTAL SEMESTER CREDIT HOURS: 120**

<sup>1</sup>Select 4 SCH from BIOL 1311/1111, 1413 or 2421.

<sup>2</sup>Students must apply for admission to the College of Education while enrolled in EDCI 3224.

<sup>3</sup>Select any 3000 or 4000 level course from BIOL, CHEM or GEOL.

<sup>4</sup>Students are admitted to student teaching only after passing the certification exam to teach secondary science.

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

**From:** Mott, Daniel J  
**Sent:** Wednesday, April 09, 2014 5:28 PM  
**To:** Trevino, Mary T.  
**Subject:** RE: BS Science 7-12

Yes, thank you.

DM

**From:** Trevino, Mary T.  
**Sent:** Wednesday, April 09, 2014 3:56 PM  
**To:** McReynolds, C Neal; Mott, Daniel J; Manganaro, Lynne L; Bernat, Frances P  
**Subject:** BS Science 7-12

**Importance:** High

In creating the DegreeWorks block for the core courses required for the BS in Science, I realized that the Math core course could not be MATH 1342 as that is not a core option.

The MATH courses included in the core are:

MATH 1314 College Algebra

MATH 1316 Plane Trigonometry

MATH 1324 Business Math I

MATH 2412 Pre-Calculus

MATH 2413 Calculus I

The POR indicates that the Math course outside the core is MATH 2412 – which is listed as a core option.

The entry in the POR should read as highlighted below so that MATH 2412 is a core course and MATH 1342 is the Math outside the core:

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**6. Support Area:** **3** SCH of EDRD 3320.

May I make the notation on the UCC document?