UCC Document # 71			
Review Type:	Edit	Exp	Full

CATALOG YEAR 2015-2016 (Please use separate form for each add/change)

	COLLEGE/SCHOOL: College of A Current Catalog Page(s) Affected:	Arts and Sciences				
	If new, provide Course Prefix, Num Value, Description, prerequisite, and	ge:Xber, Title, <u>Measurable</u> Student Learning Oud lecture/lab hours if applicable. If in current changes in red and provide a brief justification	t online catalog,			
43 1412	requirements of CHEM <u>1112</u> , 2423, 2425, 4190; upper level requirements of CHEM 3405, 3431, 3451, 4120 (take twice), 4198 and 4411; and 12 SCH selected from any additional CHEM course at the 3000-4000 level. CHEM 4120 may be repeated for up to 2 SCH of credit within the degree program. CHEM 4198-4498 may be repeated but not to exceed five semester hours for chemistry majors and not to exceed four hours fall other students. 5. Minor: A minimum of 18 SCH from one discipline at least twelve of which must be at the 3000-4000 level. S Appendix C. 6. Supporting Sciences Curriculum: 12 SCH including PHYS 1301/1101, PHYS 1302/1102 and BIOL 1306/110 and the 3 SCH of BIOL 1306 taken as part of the core.					
	Justification: CHEM 4190 will not be taught.					
	Approvals:	Signature Digitally signed by Neal McReynolds	Date			
	Chair Department Curriculum Committee	Neal McReynolds Diver-Neal McReynolds, or-Texas AM Interantational University, our Department of Biology and Chemistry, University, Out Department of Biology and Chemistry, University, Out Department of Biology and Chemistry, University, Out Department of Biology and Chemistry, University, Un				
	Chair	Dan Mott Digitally signed by Dan Mott Dis rin-Dan Mict. on TAMU.to Biology & Chemistry. emails-dismitstration edu. cets5				
	Department	M. Zoran				
	Chair	1121.	Oct. 24/14			
	College Curriculum Committee	Frances Bernat Digitally signed by Frances Bernat, 0=CO	ernat			
	Dean	Frances Bernat DN: cn=Frances Bernat, o=CO Social Research, email-france Date: 2014.10.26 11:35:33-05	s.bernat@tamiu.edu, c=US			
	Provost	Mulley	12/,/1			

BACHELOR OF SCIENCE MAJOR IN CHEMISTRY

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 FRESHMAN YEAR	HOURS	SPRING	HOURS
BIOL 1306 Principles of Biology I	2	FRESHMAN YEAR	
1	3		
BIOL 1106 Principles of Biology I Lab CHEM 1311 General Chemistry I	1	CHEN LOID CO. LOI	
	3	CHEM 1312 General Chemistry II	3
CHEM 1111 General Chemistry I Lab ENGL 1301 English Composition I	1	CHEM 1112 General Chemistry II Lab	1
	3	ENGL 1302 English Composition II	3
HIST 1301 The U.S. to 1877	3	HIST 1302 The U.S. Since 1877	3 3 3
INIV. 1101 I		Soc/Behavioral Science*	
UNIV 1101 Learning in a Global Context I	1	UNIV 1102 Learning in a Global Context II	<u>1</u>
Total	15		14
SOPHOMORE YEAR		SOPHOMORE YEAR	
CHEM 2423 Organic Chemistry I	4	CHEM 2425 Organic Chemistry II	4
PHYS 1301 General Physics I	3	PHYS 1302 General Physics II	3
PHYS 1101 Physics I Lab	1	PHYS 1102 Physics II Lab	1
MATH 2413 Calculus I	4	ENGL 2311 Technical Writing	3
PSCI 2305 American National Govt	3	MATH 2414 Calculus II	4
		PSCI 2306 American State Govt	3
Total	15		4 3 18
JUNIOR YEAR		JUNIOR YEAR	
CHEM 3405 Analytical Chemistry I	4	CHEM Advanced CHEM Elec	4
,		CHEM 4198 Investigations in Chemistry	1
CHEM 3451 Biochemistry I	4	CHEM 4190 Writing in Chemical Literature	
Creative Arts*	3	ENGL Language, Philosophy, Culture*	3
Minor/Gen Elective**	<u>3</u>	MATH 3330 Differential Equations	3
		Minor/Gen Elective**	<u>3</u>
Total	14		<u>1</u> 4
SENIOR YEAR		SENIOR YEAR	
CHEM 3431 Physical Chemistry I	4	CHEM 4120 Senior Seminar	1
CHEM 4120 Senior Seminar	1	CHEM 4120 Selliol Sellinial CHEM Advanced CHEM Elect	4
CHEM 4411 Inorganic Chemistry	4	CHEM Advanced CHEM Elect	4
Adv Minor/Gen Elective**	3	Adv Minor/Gen Elective**	
Adv Minor/Gen Elective**	<u>3</u>	Adv Minor/Gen Elective**	3 <u>3</u>
Total	<u>5</u> 15	Adv Millor/dell Elective.	<u>3</u> 15
C. T. ATTE	13		15

TOTAL SEMESTER CREDIT HOURS: 120

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

Some courses may require prerequisites not listed.

¹Advanced Chemistry electives, select 12 SCH from any additional CHEM 3000-4000 level course.