

**CURRICULUM SUMMARY FOR THE BACHELOR OF SCIENCE IN
CHEMISTRY
AMERICAN CHEMICAL SOCIETY (ACS) APPROVED CONCENTRATION
TOTAL CREDITS REQUIRED:122**

CORE CURRICULUM (STANDARD)*		MAJOR (CHEMISTRY)	OTHER REQUIREMENTS	MINOR REQUIREMENTS
TSU COURSES	TCCNS EQUIVALENT			
42 credits		40 credits	40 credits	0 credits
<u>Communication:</u>		CHEM 111 (1)	BIOL 111 (1)	
ENG 131 (3) **	ENGL 1301	CHEM 112 (1)	BIOL 112 (1)	
ENG 132 (3)	ENGL 1302	CHEM 231 (3)	BIOL 131 (3)	
<u>Mathematics:</u>		CHEM 211 (1)	BIOL 132 (3)	
MATH 136 (3)	MATH 2312	CHEM 232 (3)	CHEM 4XX (3)	
<u>Life and physical sciences:</u>		CHEM 212 (1)	CS 117 (3)	
CHEM 131 (3)	CHEM 1311	CHEM 332 (3)	MATH 241 (4)	
CHEM 132 (3)	CHEM 1312	CHEM 322 (2)	MATH 242 (4)	
<u>Language, philosophy, and culture:</u>		CHEM 431 (3)	MATH 243 (4)	
ENG 2xx (3) ***		CHEM 411 (1)	MATH 251 (3)	
<u>Creative arts:</u>		CHEM 432 (3)	PHYS 251 (3)	
Creative Arts Course (3) ****		CHEM 412 (1)	PHYS 217 (1)	
<u>American history:</u>		CHEM 445 (4)	PHYS 252 (3)	
HIST 231 (3)	HIST 1301	CHEM 450 (3)	PHYS 218 (1)	
HIST 232 (3)	HIST 1302	CHEM 451 (3)		
<u>Government/political science:</u>		CHEM 453 (3)	Elective (2)	
POLS 235 (3)	GOVT 2305	CHEM 454 (3)	FS 102 (1)	
POLS 236 (3)	GOVT 2306	CHEM 499 (1)		
<u>Social and behavioral sciences:</u>				
PSY 131 (3) or SOC 157 (3)	PSYC 2301 or SOCI 1301			
<u>Institutional Options:</u>				
SC 135 or SC 136 (3)	SPCH 1321 or SPCH 1315			
CS 116 (3)	COSC 1301			

* Students should be advised by a major advisor prior to registering for any credit, particularly any core curriculum credit as listed

** (N) represents the number of course credits.

*** ENG 230, ENG 231, ENG 235, or ENG 244 (TCCN: ENGL 2332, ENGL 2333, ENGL 2326, or ENGL 2326)

**** MUSI 136, MUSI 239, THEA 130, ART 135, or ART 137 (TCCB: MUSI 1306, HUMA 1315, DRAM 1310, ARTS 1301, or HUMA 2323)

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First Year	FIRST SEMESTER		SECOND SEMESTER	
	CHEM 131 General Chemistry I Lec	3	CHEM 132 General Chemistry II Lec	3
	CHEM 111 General Chemistry I Lab	1	CHEM 112 General Chemistry II Lab	1
	BIOL 131 Biological Science I Lec	3	BIOL 132 Biological Science II Lec	3
	BIOL 111 Biological Science I Lab	1	BIOL 112 Biological Science II Lab	1
	ENG 131 Freshman English I	3	ENG 132 Freshman English II	3
	MATH 136 Precalculus Mathematics	3	MATH 241 Calculus & Analytic Geometry I	4
	FS 102 Freshman Seminar	1		
		15 Hrs		15 Hrs

Second Year	THIRD SEMESTER		FOURTH SEMESTER	
	CHEM 231 Organic Chemistry I Lec	3	CHEM 232 Organic Chemistry II Lec	3
	Chem 211 Organic Chemistry I Lab	1	Chem 212 Organic Chemistry II Lab	1
	ENG 2XX Upper Level English	3	MATH 243 Calculus & Analytic Geometry, III	4
	MATH 242 Calculus & Analytic Geometry, II	4	CS 117 Computer Science II Lec	3
	CS 116 Computer Science I Lec	3	HIST 232 Social & Political History of the United States since 1877	3
	HIST 231 Social & Political History of the United States to 1877	3	Elective	2
		17 Hrs		16 Hrs

Third Year	FIFTH SEMESTER		SIXTH SEMESTER	
	CHEM 332 Quantitative Analysis Lec	3	CHEM 445 Biochemistry	4
	CHEM 322 Quantitative Analysis Lab	2	POLS 236 Texas Government	3
	MATH 251 Differential Equations	3	PHYS 252 University Physics II Lec	3
	POLS 235 American Government	3	PHYS 218 University Physics II Lab	1
	PHYS 251 University Physics I Lec	3	PSY 131 or SOC 157 Intro to Psychology or Sociology	3
	PHYS 217 University Physics I Lab	1	Creative Arts Course *	3
	15 Hrs		17 Hrs	

Fourth Year	SEVENTH SEMESTER		EIGHTH SEMESTER	
	CHEM 431 Physical Chemistry I Lec	3	CHEM 432 Physical Chemistry II Lec	3
	CHEM 411 Physical Chemistry I Lab	1	CHEM 412 Physical Chemistry II Lab	1
	CHEM 450 Inorganic Chemistry I	3	CHEM 451 Inorganic Chemistry II	3
	CHEM 454 Research	3	CHEM 453 Instrumental Analysis	3
	CHEM 499 Seminar	1	CHEM 4xx	3
	SC 135 or 136 Business & Professional Communication or Public Address	3		
	14 Hrs		13 Hrs	

* MUSI 136, MUSI 239, THEA 130, ART 135, or ART 137 (TCCB: MUSI 1306, HUMA 1315, DRAM 1310, ARTS 1301, or HUMA 2323)