



## A.S. in Chemistry

to

## B.S. in Chemistry (7-12 Teacher Certification)

This four-year plan provides a model for on-time completion of the B.S. in Chemistry (7-12, Teacher Certification) at UTRGV by starting at South Texas College.

Year	First Semester		Second Semester	
	STC Requirement	UTRGV Equivalent	STC Requirement	UTRGV Equivalent
F R E S H M A N	Creative Arts Core	Creative Arts Core	HIST 1301 or HIST 2327 (American History Core)	HIST 1301 or HIST 2327 (American History Core)
	CHEM 1411 (Major)	CHEM 1311 & CHEM 1111 (Life & Physical Science Core, <b>Required at UTRGV</b> )	CHEM 1412 (Major)	CHEM 1312 & CHEM 1112 (Life & Physical Science Core, <b>Required at UTRGV</b> )
	ENGL 1301 (Communications Core)	ENGL 1301 (Communications Core)	ENGL 1302 (Communications Core)	ENGL 1302 (Communications Core)
	MATH 2413 (Mathematics Core)	MATH 2413 (Mathematics Core, <b>Required at UTRGV</b> )	PHYS 1401 (Life & Physical Science Core, <b>Required at UTRGV</b> )	PHYS 1401 (Major, <b>Required at UTRGV</b> )
	<b>Third Semester</b>			
	STC Requirement		UTRGV Equivalent	
	HIST 1302 or HIST 2328 (American History Core)		HIST 1302 or HIST 2328 (American History Core)	
	Language, Philosophy & Culture Core		Language, Philosophy & Culture Core	
Year	Fourth Semester		Fifth Semester	
	STC Requirement	UTRGV Equivalent	STC Requirement	UTRGV Equivalent
S O P H O M O R E	CHEM 2423 (Major)	CHEM 2323 & CHEM 2123 (Major)	CHEM 2425 (Major)	CHEM 2325 & CHEM 2125 (Major)
	GOVT 2305 (Political Science Core)	POLS 2305 (Political Science Core)	GOVT 2306 (Political Science Core)	POLS 2306 (Political Science Core)
	PHYS 1402 (Life & Physical Science Core)	PHYS 1402 (Major, Required at UTRGV)	MATH 2414 (Major)	MATH 2414 (Major)
	Social & Behavioral Science Core	Social & Behavioral Science Core	Component Area Option Core	Integrative and Experiential Learning Core

Year	Fall Semester	Spring Semester
<b>J U N I O R</b>	UTCH 1101 Inquiry Approaches to Teaching	UTCH 1102 Inquiry-Based Lesson Design
	CHEM 3303 or CHEM 3387 Biochemistry I or Biochemistry I Honors	CHEM 3301 Inorganic Chemistry
	CHEM 3103 Biochemistry I Lab	CHEM 3101 Inorganic Chemistry Lab
	CHEM 2301 Analytical Chemistry	CHEM 4304 Instrumental Analysis
	CHEM 2101 Analytical Chemistry Lab	CHEM 4104 Instrumental Analysis Lab
	UTCH 3301 Knowing and Learning in Mathematics and Science	CHEM 3304 Physical Chemistry I
Year	Fall Semester	Spring Semester
<b>S E N I O R</b>	CHEM 3104 Physical Chemistry I Lab	PHIL/MATE 3317 Perspectives in Mathematics and Science
	UTCH 3303 Project-Based Instruction	CHEM 3305 Physical Chemistry II
	BIOL/PHYS/MATE 4392 Research Methods	CHEM 3105 Physical Chemistry II Lab
	BIOL/PHYS 3330 or MATE 3321 Functions and Modeling	CHEM 4305 Chemistry Capstone
	UTCH 3302 Classroom Interactions	CHEM 4201 Chemistry Problems I
		READ 4305 Content Area Literacy
	Fall Semester	Spring Semester
	UTCH 4601 Apprentice Teaching	
UTCH 4101 Apprentice Teaching Seminar		

This degree requires 121 hours and a minimum of 42 advanced (3000 and 4000) credit hours.