

## CHEMISTRY, BACHELOR OF ARTS

2018-2019 Degree Plans

University Core Requirements (43* Hours)	UHCL Course Title	TCCNS	CODE
<b>Communications (6 hours):</b>	WRIT 1301—Composition I ( <i>Grade must be "C-" or better</i> )	ENGL 1301	010
	WRIT 1302—Composition II ( <i>Grade must be "C-" or better</i> )	ENGL 1302	010
<b>Mathematics (4* hours):</b>	MATH 2413—Calculus I ( <i>Grade must be "C-" or better</i> )	MATH 2413	020
*Three (3) hours of Calculus will count toward the University Core and one (1) hour will count toward the Major			
<b>Life and Physical Sciences (6 hours):</b>	CHEM 1311—General Chemistry I ( <i>lecture, Grade must be "C-" or better</i> )	CHEM 1311	030
	CHEM 1312—General Chemistry II ( <i>lecture, Grade must be "C-" or better</i> )	CHEM 1312	030
<b>Language, Philosophy, and Culture (3 hours):</b>	Choose ONE course from the core approved list		040
<b>Creative Arts (3 hours):</b>	Choose ONE course from the core approved list		050
<b>U.S. History (6 hours):</b>	HIST 1301—U.S. History I	HIST 1301	060
	HIST 1302—U.S. History II	HIST 1302	060
<b>Government/Political Science (6 hours):</b>	POLS 2305—Federal Government	GOVT 2305	070
	POLS 2306—Texas Government	GOVT 2306	070
<b>Social/Behavioral Science (3 hours):</b>	Choose ONE course from the core approved list		080
<b>Component Area Option (6 hours):</b>	COMM 1315—Public Speaking	SPCH 1315	090
	PSYC 1100—Learning Frameworks	PSYC 1100	090
	CHEM 1111—Lab General Chemistry I ( <i>Grade must be "C-" or better</i> )	CHEM 1111	090
	CHEM 1112—Lab for General Chemistry II ( <i>Grade must be "C-" or better</i> )	CHEM 1112	090

Major Requirements (49 hours)	UHCL Course Title	TCCNS	CODE
<i>Required minimum grade is "C-" in the following classes:</i>			
	WRIT 3315—Technical Writing		
	PHYS 1301/1101—College Physics I & Lab	PHYS 1301/1101	030/090
	PHYS 1302/1102—College Physics II & Lab	PHYS 1302/1102	030/090
	CHEM 2323/2123—Organic Chemistry I & Lab	CHEM 2323/2123	
	CHEM 2325/2125—Organic Chemistry II & Lab	CHEM 2325/2125	
	CHEM 3320—Survey of Physical Chemistry		
	CHEM 3310—Advanced Chemical Calculations		
	CHEM 4268—Lab for Instrumental Analysis		
	CHEM 4274—Lab for Quantitative Chemical Analysis		
	CHEM 4335/4235—Inorganic Chemistry and Lab		
	CHEM 4367—Instrumental Analysis		
	CHEM 4371—Advanced Spectroscopic Analysis		
	CHEM 4372—Chemistry Seminar		
	CHEM 4373—Quantitative Chemical Analysis		
	CHEM 4368—Advanced Organic Chemistry		

**Major Electives (28 hours)****UHCL Course Title**

Required minimum grade for Major Electives is "C-". Choose 3xxx or 4xxx level classes from the following approved list of Chemistry classes or you may choose other technical (science or science related) classes to be approved in advance by your faculty advisor. No more than 2 courses in the same area. Courses in BIOL (Cell & Molecular Biology, Anatomy, Genetics, Ecology), PSYC and SOCI required for MCAT and DAT tests will be accepted with faculty approval.

**Approved List:**

CHEM 4355—Environmental Sampling and Monitoring  
CHEM 4251—Lab for Environmental Analysis  
CHEM 4341— Biochemistry I  
CHEM 4311—Chemical Origins  
CHEM 4342—Biochemistry II  
CHEM 4315—Handedness in Science  
CHEM 3333—Environmental Chemistry  
CHEM 4328—Introduction to Medicinal Chemistry  
CHEM 4359—Drug Design & Synthesis  
CHEM 4363—Forensic Chemistry  
CHEM 4365—Introduction to Polymer Chemistry  
CHEM 4376—Introduction to Petroleum Chemistry  
CHEM 4391—Selected Topics in Chemistry  
CHEM 4189—Independent Study in Chemistry  
CHEM 4389—Independent Study in Chemistry

## General Degree Requirements

- Students must complete at least 120 semester credit hours. A minimum of 45 hours of the 120 semester hours must be advanced (3000-4000 level) course work according to the requirements of the respective major.
- Students must complete the University Core Curriculum requirements (refer to Core Curriculum Requirements section of this catalog).
- Students must fulfill the statutory requirements of the Texas State Education Code, including the following:
  - Six hours of U.S. History (three hours may be Texas History).
  - Six hours of Constitutions of the United States and Texas.
- Students must demonstrate writing proficiency by completing nine hours of lower-level (1000-2000 level) and upper-level (3000-4000 level) English composition course credit with a minimum grade of "C-" or better. Some majors may require higher grades in English composition.
- Students must complete at least 25% of the credit hours required for the degree (i.e., 30 semester credit hours for a 120 credit hour program) through instruction offered by UHCL to fulfill the Southern Association of Colleges and Schools (SACS) residency requirements.
- Students must complete the final 30 semester hours of 3000 and 4000 level course work in residence at UHCL.
- Students must complete a minimum of 12 semester credit hours of upper-level (3000-4000 level) coursework in the major in residence at UHCL.
- Students must have a cumulative GPA of 2.000 on course work completed at UHCL with grades of "C" or better on at least 30 hours of resident upper-level work. Grades of "C-" or below cannot be applied toward the 30 hours of resident upper-level work.