Students must receive a grade of "C" or better in calculas-1 and calculas-2 prior to enrolling in Physical Chemistry courses.

- Students must pay close attention to prerequisite course requirements of all chemistry courses
- & Learning in Math & Science) • After completing UTeach 3303 in spring apply to Apprentice Teaching for fall.
- Other pre-requirements for UTeach admissions include ENGL 1301; ENGL 1302 with C or better and UTCH 3301 (Knowing
- Students should have minimum passing score on one of the following exams (may mix and match) THEA, Compass, Accuplacer, ACT, SAT. Please consult UTeach program for minimum scores).
- program. • Students must apply to college of education for admission into the UTeach program after acquiring junior status (60 hours towards degree plan) with an overall GPA of 2.75, and must have completed 15 semester credit hours in chemistry.
- Students should pay close attention for two UTeach admission deadline in summer and fall semesters set by the UTeach

# **Additional Info**

**AAAY HTAUOA** 

**Department Office:** Phone: (956) 665-3372 Email: chemistry@utrgv.edu

**Undergraduate Program** Coordinator Dr. Hassan Ahmad hassan.ahmad@utrgv.edu

**Department Chair Dr. Yuanbing Mao** yuanbing.mao@utrgv.edu

## **Contact Info**

**ΑΑΑΥ ΟΑΙΗΤ** 

**CHEMISTRY (BS)** \*7th-12th UTeach Certification Catalog: 2018-19 **COLLEGE OF SCIENCES** 



# **2018-2019 ACADEMIC PLAN**

# **SECOND YEAR**

TCH 3301 Knowing & Learning in Math & Science Integrative/Experiential Learning Ţ ƏSOOY American History t esoon Language, Philosophy & Culture τ əsooy HEM 2123 Organic Chemistry I Lab HEM 2323 Organic Chemistry I

BrileboM bne snoitonua 0666 2YH HYS 4392 Research Methods Integrative/Experiential Learning T 92004 American History T əsooy HEM 2125 Organic Chemistry II Lab HEM 2325 Organic Chemistry II

UTCH 3302 Classroom Interactions READ 4305 Content Area Literacy PHYS 1402 General Physics II CHEM 4104 Instrumental Analysis Lab CHEM 4304 Instrumental Analysis CHEM 3101 Inorganic Chemistry Lab CHEM 3301 Inorganic Chemistry

PHIL 3317 Perspectives on Science & Math PHYS 1401 General Physics I CHEM 2101 Analytical Chemistry Lab CHEM 2301 Analytical Chemistry CHEM 3103 Biochemistry I Lab CHEM 3303 Biochemistry I

Social and Behavioral Sciences

UTCH 4101 Apprentice Teaching Seminar

UTCH 4601 Apprentice Teaching

CHEM 3305 Physical Chemistry II

CHEM 4201 Chemistry Problems I

CHEM 4305 Chemistry Capstone

CHEM 3304 Physical Chemistry I

CHEM 3104 Physical Chemistry I Lab

Choose 1

CHEM 3105 Physical Chemistry II Lab

UTCH 3303 Project-Based Instruction

"Choose 1" Indicates course options. If options are not listed, please review the 2018-19 General Education Core or the degree plan for this major: www.utrgv.edu/degreeplans.

Courses in red are part of the General Education Core Curriculum (GEC).

	nguiry-Based Lesson Design	UTCH 1102
	Creative Arts	τ
d	Government/Political Science	τ əsooyጋ
d	li suiusied	4142 HTAM
С	General Chemistry II Lab	CHEW JJJZ
С	General Chemistry II	CHEW 1312
С	Communication	τ əsooyጋ
С		
	Learning Framework	τοετ λινη
Π	gnincesthes to Teaching	UTCH 1101
С	l sulusis	MATH 2413
С	Government/Political Science	τ əsooyጋ
С	General Chemistry I Lab	СНЕМ ТТТТ
С	General Chemistry I	CHEW J3JJ
С	Communication	τ əsooyጋ

## **AAAY TZAIA**

### **Degree Info**

Students receiving the BS Degree in Chemistry with **Teacher Certification can** continue their academic studies into masters or doctoral programs in Chemistry, can use the degree to find employment as a chemist, or can enter a career as a secondary school teacher of chemistry. The Chemistry degree is certified by the American Chemical Society

#### **FIRST YEAR**

#### **SECOND YEAR**

IRN	$\Lambda \boldsymbol{\nu}$	

UTRio Grande Valley

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MILESTONES	<ul> <li>UTRGV has a Writing Center and a Learning Center. Make it a point to visit them!</li> <li>Complete your core English classes (section 010) during your first year.</li> <li>Complete 30 credit hours every year in order to graduate in 4 years.</li> <li>Shoot for a GPA of 4.0</li> <li>Take MATH-2413 and MATH 2414 in your first year.</li> </ul>	<ul> <li>Shoot for a GPA of 4.0.</li> <li>Complete major foundation classes, such as CHEM 1111/1311; 1112/1312; 2123/2323; 2125/2325</li> <li>Complete ENGL 1301; ENGL 1302 with C or better and UTCH 3301</li> <li>Complete 30 credit hours.</li> </ul>	<ul> <li>Shoot for a GPA of 4.0.</li> <li>Complete 30 credit hours.</li> <li>Have you landed an internship or acquired research experience? This is the year to make it happen.</li> <li>Apply to the UTeach program. Visit www.utrgv.edu/cep for more information.</li> </ul>	<ul> <li>Shoot for a GPA of</li> <li>"I have a plan for a great! If not, visit y</li> <li>Register for your C courses: CHEM 430</li> <li>Complete at least</li> <li>Submit your applic apprenticeship, or</li> </ul>
ADVICE & SUPPORT	<ul> <li>Meet with your academic advisor and bring your orientation folder with you to every session!</li> <li>Choose a major with confidence- Visit my.UTRGV.edu and check out MyMajors.</li> <li>Visit a faculty member during their office hours and ask a question about class.</li> <li>Classes fill up fast. When registration opens, be sure to register on the first day for your group.</li> <li>Cold or flu getting you down? We have Student Health Services on campus with free office visits.</li> </ul>	<ul> <li>Want to explore different careers? Check out MyMajors!</li> <li>Come ready with course suggestions and questions when you visit your academic/UTeach advisor.</li> <li>Visit the Communication Hauser Lab for help with your speeches.</li> <li>Trouble making your tuition payment? The Financial Aid Office can help. Payment plans and emergency loans are also available</li> </ul>	<ul> <li>Seek out research opportunities within your major and join a professional organization such as American Chemical Society.</li> <li>Check DegreeWorks to make sure you are on track for graduation next year.</li> <li>Apply for internship and/or job shadowing opportunities. Discuss this with your advisor, faculty mentor, or Career Center.</li> </ul>	<ul> <li>Engage in an indep preparation intern such as Region-1 o</li> <li>Discuss future plar that includes empl</li> <li>Apply for graduati anticipated date. N ensure you are on</li> </ul>
APPLY WHAT YOU LEARN	<ul> <li>Look for a service-learning course! For guidance, visit Engaged Scholarship &amp; Learning Office.</li> <li>Participate in a campus-sponsored community service project.</li> <li>Ask a student in class to study with you.</li> </ul>	<ul> <li>To find undergraduate research opportunities, visit the Engaged Scholarship &amp; Learning Office.</li> <li>Consider attending the LeaderShape Institute or attend the Engaged Scholar Symposium.</li> </ul>	<ul> <li>Go show off your research, service-learning or creative works at the Engaged Scholar Symposium!</li> <li>Sharpen your writing skills! Take an intensive writing course such as ENGL -3351 Creative Writing I or become the secretary for your organization.</li> </ul>	<ul> <li>Continue to prese Engaged Scholar S teachers related s</li> <li>Set up an information (especially an alum work in.</li> </ul>
GLOBAL, CAMPUS & COMMUNITY ENGAGEMENT	<ul> <li>Set up your profile on the Engagement Zone through My.UTRGV.edu.</li> <li>Attend a diversity based campus or community event (e.g. MLK Day of Service).</li> <li>Attend a departmental program such as Chemistry Major Get Together.</li> <li>Join a student organization! Consider looking into Elliott Chemical Society or visit VLink (utrgv.edu/vlink) for options.</li> </ul>	<ul> <li>Look at study abroad opportunities! Consider going to South America, Europe, Africa or Asia</li> <li>Check out a cultural campus or community event such as HESTEC or FESTIBA.</li> <li>Join another student organization. Perhaps an organization that aligns with your interest or visit VLink for options.</li> <li>Check out a campus event that offers free lunchbring a friend!</li> </ul>	<ul> <li>Consider serving on a campus life/community committee or become a student leader and make a difference. Visit VLink or speak with your Student Government Association for more information!</li> <li>Travel the world! Look into study abroad opportunities at Office for International Programs &amp; Partnerships.</li> </ul>	<ul> <li>Identify employers fairs, online, at on agencies, etc. The</li> <li>Before a job interv Career Center or s Hauser Lab.</li> </ul>
LIFE AFTER GRADUATION	<ul> <li>Create a résumé and set up your profile on the Handshake icon: (My.UTRGV.edu).</li> <li>Got summer plans? Visit Career Center and ask about places to do some job shadowing.</li> <li>Research shows that students who work on campus perform better than those who work off campus. Look for a job on Handshake!</li> <li>Check your UTRGV email for the daily Messenger- locate and attend one student workshop.</li> </ul>	<ul> <li>Update your resume in Handshake and have it reviewed.</li> <li>Visit the Career Center site to find a job fair to attend. At the event, approach a recruiter and discuss internships.</li> <li>Will a minor expand your career options? We recommend minor that would help in your career plans or meet a chemistry advisor for guidance.</li> <li>Explain to someone how your academic program aligns with your strengths and interests.</li> </ul>	<ul> <li>Check out the Chemistry department website or Region-1 or local ISD for postings on career in science teaching.</li> <li>Think about three people you can ask for letters of recommendation (professors, mentors, advisors, supervisors, etc.). Give them at least two weeks' advance notice!</li> <li>When is the deadline for your graduate school application? Visiting the program admissions webpage. Most do not accept late applicants!</li> </ul>	<ul> <li>Have you received an employment of Career Center, and</li> <li>Formulate and imp graduation: attend fellowships, etc.</li> <li>Update your informalumni mixers, even Center services!</li> <li>Remember to do y studentloans.gov.</li> </ul>



### **FOURTH YEAR** AND BEYOND of 4.0.

after graduation." If this describes you, your Faculty Advisor or Career Center!

- Capstone/senior/portfolio project 305, UTCH 4601 and UTCH 4101.
- 30 credit hours to graduate.
- cation(s) for graduate school, an r for fulltime employment.

#### pendent study project or teachers

- nship to complement chemistry teaching, or local ISD.
- ins with your faculty mentor or advisor bloyment, finances, and other life goals.
- ion one semester prior to your Visit the Academic Advising Center to n track.

ent research or creative works at the Symposium or at regional ACS meetings or symposia or conferences offered by TEA

tional interview with an individual mnus) currently in the field you aspire to

#### s of interest and seek them out at job

- n-campus information sessions, staffing Career Center can help.
- view, schedule a mock interview with the speech coaching with the Communication

I your acceptance for graduate school or ffer? If not, network: talk to faculty, the d get on LinkedIn.

- plement a strategy for life after d career fairs, graduate fairs, apply to
- rmation with Alumni Relations. Enjoy ents and continued access to Career
- your exit loan counseling on

### CAREERS

- ..... Teaching educational
  - Research
  - Universities and colleges
  - Medical and other professional schools
  - Public and private schools, K-12

For additional info, visit the **Career Center website and** check out "What Can I Do With This Major?" www.utrgv.edu/careercenter