UTCH 1102

Choose 1

Choose 1

ALAS HTAM

CHEW 1115

CHEW 1315

Choose 1

UNIV 1301

UTCH 1101

MATH 2413

Choose 1

CHEW 1111

CHEM 1311

Choose 1

CHEMISTRY (BS) *7th-12th UTeach Certification Catalog: 2017-18 **COLLEGE OF SCIENC**

ALTERNATION OF THE PERSON AND PROPERTY.

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

Degree Info

Students receiving the BS

Email: chemistry@utrgv.edu

Department Office: Phone: (956) 665-3372

Dr. Hassan Ahmad

Undergraduate Program Coordinator hassan.ahmad@utrgv.edu

Contact Info

Department Chair

Dr. Yuanbing Mao

yuanbing.mao@utrgv.edu

and Mathematics

General Physics II

Perspectives on Science

Instrumental Analysis

Instrumental Analysis

Inorganic Chemistry

Inorganic Chemistry Lab

Classroom Interactions

Content Area Literacy

Analytical Chemistry Lab

Analytical Chemistry

Biochemistry I Lab

General Physics I

PHIL 3317

PHYS 1402

CHEW 4104

CHFINI 4304

CHEW 3707

CHEW 3307

UTCH 3302

KEAD 4305

PHYS 1401

CHEM 5707

CHEW 5301

CHEW 3703

CHEW 3303

SECOND YEAR

UTRio Grande Valley

RST YEAR

Inquiry-Based Lesson

Government/Political

General Chemistry II

Learning Framework

Inquiry Approaches to

Government/Political

General Chemistry I

Communication (Core)

General Chemistry I Lab

Communication (Core)

General Chemistry II Lab

Creative Arts (Core)

Science (Core)

Calculus II

Teaching

Calculus I

Science (Core)

RABY HTRUOA

Additional Info

admission deadline in summer and fall semesters set by the

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 have minimum passing score on one of the

following exams (may mix and match) THEA, Compass,

Accuplacer, ACT, SAT. Please consult UTeach program for

 Other pre-requirements for UTeach admissions include ENGL 1301; ENGL 1302 with C or better and UTCH 3301 (Knowing

After completing UTeach 3303 in spring apply to Apprentice

Students must pay close attention to prerequisite course

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

• Students should pay close attention for two UTeach

AA3Y GAIHT

Biochemistry I

Sciences (Core)	Choose 1	
Social and Behavioral		
Learning Option (Core)	Choose 1	
Integrative/Experiential		
American History (Core)	Choose 1	
Culture (Core)	Choose 1	
Language, Philosophy &		
Organic Chemistry I Lab	CHEM 5153	
Organic Chemistry I	CHEM 5353	

CHEM 5152 CHEW 5352

Mathematics and Knowing and Learning in Learning Option (Core) Integrative/Experiential American History (Core) Organic Chemistry II Lab Organic Chemistry II

Choose 1

L 9soodJ

UTCH 3301

Seminar **UTCH 4101**

CHEW 3702

CHEW 3302

OTCH 3303

PHYS 4392

PHYS 3330

CHEM 4201

CHEW 4102

CHEW 3704

CHEW 3304

Apprentice Teaching Apprentice Teaching **UTCH 4601**

Physical Chemistry II Lab

Functions and Modeling

Chemistry Problems I

Chemistry Capstone

Physical Chemistry I

Physical Chemistry I Lab

UTeach program.

minimum scores).

Teaching for fall.

courses.

& Learning in Math & Science)

requirements of all chemistry courses

Physical Chemistry II

Research Methods

Instruction

Project-Based

Chemistry Seminar **CHEM 4101**

BLUEPRINT EXPERIENCES

	FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR
MILESTONES	 □ UTRGV has a Writing Center and a Learning Center. Make it a point to visit them! □ Complete your core English classes (section 010) during your first year. □ Complete 30 credit hours every year in order to graduate in 4 years. □ Shoot for a GPA of 4.0 	 □ Shoot for a GPA of 4.0. □ Complete major foundation classes, such as CHEM 1111/1311; 1112/1312; 2123/2323; 2125/2325 □ Complete ENGL 1301; ENGL 1302 with C or better and UTCH 3301 □ Apply to the UTeach program. Visit 	 Shoot for a GPA of 4.0. Complete 30 credit hours. Have you landed an internship or acquired research experience? This is the year to make it happen. 	AND BEYOND Shoot for a GPA of 4.0. "I have a plan for after graduation." If this describes you, great! If not, visit your Faculty Advisor or Career Center! Register for your Capstone/senior/portfolio project courses: CHEM 4305, UTCH 4601 and UTCH 4101. Complete at least 30 credit hours to graduate.
	☐ Take MATH-2413 and MATH 2414 in your first year. ☐ Meet with your academic advisor and bring your orientation folder with you to every session!	www.utrgv.edu/cep for more information. Complete 30 credit hours. Want to explore different careers? Check out Kuder Journey!	☐ Seek out research opportunities within your major and join a professional organization such as	 Submit your application(s) for graduate school, an apprenticeship, or for fulltime employment. Engage in an independent study project or teachers preparation internship to complement chemistry teaching,
ADVICE &	 Choose a major with confidence- Visit my.UTRGV.edu and check out the Kuder Journey. 	☐ Come ready with course suggestions and questions when you visit your academic/UTeach	American Chemical Society. Check DegreeWorks to make sure you are on track	such as Region-1 or local ISD. Discuss future plans with your faculty mentor or advisor
SUPPORT	 Visit a faculty member during their office hours and ask a question about class. Classes fill up fast. When registration opens, be sure to register on the first day for your group. Cold or flu getting you down? We have Student Health Services on campus with free office visits. 	 advisor. Visit the Communication Hauser Lab for help with your speeches. Trouble making your tuition payment? The Financial Aid Office can help. Payment plans and emergency loans are also available 	for graduation next year. Apply for internship and/or job shadowing opportunities. Discuss this with your advisor, faculty mentor, or Career Center.	that includes employment, finances, and other life goals. Apply for graduation one semester prior to your anticipated date. Visit the Academic Advising Center to ensure you are on track.
APPLY WHAT YOU LEARN	 Look for a service-learning course! For guidance, visit Engaged Scholarship & Learning Office. Participate in a campus-sponsored community service project. Ask a student in class to study with you. 	 □ To find undergraduate research opportunities, visit the Engaged Scholarship & Learning Office. □ Consider attending the LeaderShape Institute or attend the Engaged Scholar Symposium. 	 Go show off your research, service-learning or creative works at the Engaged Scholar Symposium! Sharpen your writing skills! Take an intensive writing course such as ENGL -3351 Creative Writing I or become the secretary for your organization. 	 Continue to present research or creative works at the Engaged Scholar Symposium or at regional ACS meetings or teachers related symposia or conferences offered by TEA Set up an informational interview with an individual (especially an alumnus) currently in the field you aspire to work in.
GLOBAL, CAMPUS & COMMUNITY ENGAGEMENT	 □ Set up your profile on the Engagement Zone through My.UTRGV.edu. □ Attend a diversity based campus or community event (e.g. MLK Day of Service). □ Attend a departmental program such as Chemistry Major Get Together. □ Join a student organization! Consider looking into Elliott Chemical Society or visit VLink (utrgv.edu/vlink) for options. 	 □ Look at study abroad opportunities! Consider going to South America, Europe, Africa or Asia □ Check out a cultural campus or community event such as HESTEC or FESTIBA. □ Join another student organization. Perhaps an organization that aligns with your interest or visit VLink for options. □ Check out a campus event that offers free lunchbring a friend! 	□ 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! □ Travel the world! Look into study abroad opportunities at Office for International Programs & Partnerships.	 Identify employers of interest and seek them out at job fairs, online, at on-campus information sessions, staffing agencies, etc. The Career Center can help. Before a job interview, schedule a mock interview with the Career Center or speech coaching with the Communication Hauser Lab.
LIFE AFTER GRADUATION	 □ Create a résumé and set up your profile on the Career Connection icon: (My.UTRGV.edu). □ Got summer plans? Visit Career Center and ask about places to do some job shadowing. □ Research shows that students who work on campus perform better than those who work off campus. Look for a job on the Career Center portal! □ Check your UTRGV email for the daily Messenger- locate and attend one student workshop. 	 □ Update your resume in Career Connection and have it reviewed. □ Visit the Career Center site to find a job fair to attend. At the event, approach a recruiter and discuss internships. □ Will a minor expand your career options? We recommend minor that would help in your career plans or meet a chemistry advisor for guidance. □ Explain to someone how your academic program 	 □ Check out the Chemistry department website or Region-1 or local ISD for postings on career in science teaching. □ Think about three people you can ask for letters of recommendation (professors, mentors, advisors, supervisors, etc.). Give them at least two weeks' advance notice! □ When is the deadline for your graduate school application? Visiting the program admissions webpage. Most do not accept late applicants! 	 ☐ Have you received your acceptance for graduate school or an employment offer? If not, network: talk to faculty, the Career Center, and get on LinkedIn. ☐ Formulate and implement a strategy for life after graduation: attend career fairs, graduate fairs, apply to fellowships, etc. ☐ Update your information with Alumni Relations. Enjoy alumni mixers, events and continued access to Career Center services!

aligns with your strengths and interests.

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

☐ Remember to do your exit loan counseling on

studentloans.gov.