• Students must complete 45 advanced hours form major requirements and technical elective categories prior to graduation.

•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

Additional Info

13XX-43XX Free Elective

12XX-42XX Free Elective

BIOL, PHYS, MATH or ENGR

BIOL, PHYS, MATH or ENGR

34XX-44XX Advanced Elective: CHEM,

CHEM 4201 Chemistry Problems I

CHEM 3305 Physical Chemistry II

CHEM 4305 Chemistry Capstone

CHEM 3304 Physical Chemistry I

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CHEM 3104 Physical Chemistry I Lab

CHEM 3105 Physical Chemistry II Lab

34XX-44XX Advanced Elective: CHEM,

33XX-43XX Chemistry Major Adv. Elective

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33XX-43XX Chemistry Major Adv. Elective

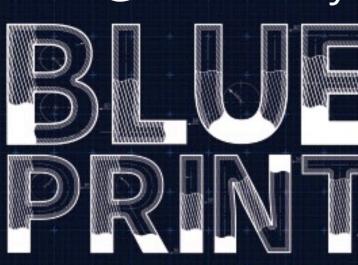
Department Office: Phone: (956) 665-3372 Email: <u>chemistry@utrgv.edu</u>

Undergraduate Program Coordinator Dr. Hassan Ahmad <u>hassan.ahmad@utrgv.edu</u>

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

Contact Info

CHEMISTRY (BS) Catalog: 2018-19 COLLEGE OF SCIENCES



UTRio Grande Valley

2018-2019 ACADEMIC PLAN

Choose 1

CHEM 2323 Organic Chemistry I CHEM 2123 Organic Chemistry I Lab CHEM 2123 Organic Chemistry I Lab CHYS 1401 General Physics I Culture

SECOND YEAR

American History

HEM 2325 Organic Chemistry II HYS 1402 General Physics II Corganic Chemistry II Lab Integrative/Experiential Learning

Creative Arts

CHEM 3301 Inorganic Chemistry Lab CHEM 3101 Inorganic Chemistry Lab CHEM 4104 Instrumental Analysis Lab Choose 1 Government/Political Science 34XX-44XX Advanced Elective: CHEM, BIOL, PHYS, MATH <u>or</u> ENGR

34XX-44XX Advanced Elective: CHEM,

CHEM 2101 Analytical Chemistry Lab

CHEM 2301 Analytical Chemistry

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CHEM 3103 Biochemistry I Lab

CHEM 3303 Biochemistry I

BIOL, PHYS, MATH or ENGR

Government/Political Science

דס דס פרעבומן דמתרמנוסע בסוב סו נעב מבצובב לאמון וסו נעוצ ועולסו: אאאאימנו לאיבמת/ מבצובבלאופעוצ

Chemistry (Broadfield Major) can continue their academic studies into masters or doctoral programs in Chemistry or can use the degree to find employment as a chemist. This degree can also be combined with teacher certification work to enter a career as a secondary school teacher of chemistry. The Chemistry (Broadfield Major) degree is certified by the American Chemical Society

Degree Info

Students receiving the BS Degree in

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T 920040

	American History	τ
τ	ll sulusib)	MATH 2414
τ	General Chemistry II Lab	CHEW JJJZ
PHYS 1402	General Chemistry II	CHEW 7375
CHEW 575	noitspinummoD	τ
CHEW 535		
	Learning Framework	τοετ λινη
τ	social and Behavioral Sciences	τ
τ	l sulusid	MATH 2413
7401 T401	General Chemistry I Lab	CHEW JJJJ
CHEW 575	General Chemistry I	CHEW 7377
CHEW 535		Tacadua
	noitesinummoS	f asood)

Integrative/Experiential Learning

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

"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.

FIRST YEAR

SECOND YEAR

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UTRio Grande Valley

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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 Take MATH 2413 and MATH 2414 in your first year. 	 Shoot for a GPA of 4.0. Complete major foundation classes, such as CHEM 1111/1311; 1112/1312; 2123/2323; 2125/2325 Complete 30 credit hours. 	 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. 	 Shoot for a GPA of "I have a plan for a great! If not, visit y Register for your Ca 4305. Complete at least 3 Submit your applica apprenticeship, or the
ADVICE & SUPPORT	 Meet with your academic advisor and bring your orientation folder with you to every session! Choose a major with confidence- Visit my.UTRGV.edu and check out MyMajors. 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. 	 Want to explore different careers? Check out MyMajors! Come ready with course suggestions and questions when you visit your academic 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 	 Seek out research opportunities within your major and join a professional organization such as American Chemical Society. Check DegreeWorks to make sure you are on track for graduation next year. Apply for internship and/or job shadowing opportunities. Discuss this with your advisor, faculty mentor, or Career Center. 	 Engage in an indep internship to comp Chemicals, Proctor Discuss future plan that includes emple Apply for graduatic anticipated date. V ensure you are on the
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 presen Engaged Scholar Sy and other undergra Set up an informat (especially an alum 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 fairs, online, at on- agencies, etc. The C Before a job intervi Career Center or sp Hauser Lab.
LIFE AFTER GRADUATION	 Create a résumé and set up your profile on the Handshake 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 Handshake! Check your UTRGV email for the daily Messenger- locate and attend one student workshop. 	 Update your resume in Handshake 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 aligns with your strengths and interests. 	 Check out the Chemistry department website for postings on career/graduate school. 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 an employment off Career Center, and Formulate and imp graduation: attend fellowships, etc. Update your inform alumni mixers, eve Center services! Remember to do yo studentloans.gov.



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FOURTH YEAR ND BEYOND

- f 4.0.
- after graduation." If this describes you, your Faculty Advisor or Career Center!
- Capstone/senior/portfolio project: CHEM
- 30 credit hours to graduate.
- cation(s) for graduate school, an for fulltime employment.
- pendent study project or an academic plement your major, such as Dow r and Gamble etc.
- ns with your faculty mentor or advisor loyment, finances, and other life goals.
- on one semester prior to your Visit the Academic Advising Center to track.
- nt research or creative works at the ymposium or at regional ACS meetings raduate symposia
- tional interview with an individual nnus) currently in the field you aspire to
- of interest and seek them out at job -campus information sessions, staffing Career Center can help.
- view, schedule a mock interview with the peech coaching with the Communication
- I your acceptance for graduate school or fer? If not, network: talk to faculty, the l get on LinkedIn.
- plement a strategy for life after I career fairs, graduate fairs, apply to
- mation with Alumni Relations. Enjoy ents and continued access to Career
- your exit loan counseling on

CAREERS

- Product
- development
- Process development
- Analysis
- Testing •
- Biotechnology (using living organisms or cell processes to make useful products)
- Consulting
- Quality
- assurance/Quality
- control
- Management
- Environmental analyses
- **Forensics**
- 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