

COLLEGE OF SCIENCES

CHEMISTRY (BS) Catalog: 2017-18



AAAY HTAUOA

Additional Info

Students must pay close attention to

chemistry courses

prerequisite course requirements of all

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

enrolling in Physical Chemistry courses.

form major requirements and technical

elective categories prior to graduation.

Students must complete 45 advanced hours

Free Elective	12XX-42XX
Avanced Elective	33XX-43XX
bəɔnɛvbA rojɛM	CHEW
Chemistry Problems I	CHEW 4 207
Physical Chemistry II	CHEW 3702
Physical Chemistry II	CHEW 3302
Advanced Elective	33XX-43XX
Major Advanced	CHEW
Chemistry Capstone	CHEW ¢T02
Differential Equations	1455 HTAM
Physical Chemistry I Lab	CHEW 3704
Physical Chemistry I	CHEW 3304

Contact Info

Department Chair

Dr. Yuanbing Mao

yuanbing.mao@utrgv.edu

Undergraduate Program

Coordinator

Dr. Hassan Ahmad

hassan.ahmad@utrgv.edu

Department Office:

Phone: (956) 665-3372

Email: chemistry@utrgv.edu

Free Elective	T3XX-43XX	e	vitoel∃ beonevbA	34XX-44XX
Free Elective	J2XX-42XX		Science (Core)	
oəl∃ bəɔnɕvbA	33XX-43XX	leoit	ilo9\tn9mn19v0D	τ əsooyጋ
bonevbA rojeM	CHEW	sisyl	enA letnəmurtenl	CHEW #10#
Chemistry Pro	CHEW 4207	sisyl	enA letnəmurtenl	CHEW #30#
Physical Chem	CHEW 3702	су Сар	lnorganic Chemis	CHEW 3707
mədƏ lesizyda	CHEW 3302	נרץ	Inorganic Chemis	CHEW 3307
oəl∃ bəɔnɕvbA	33XX-43XX	E	Advanced Elective	
Major Advance	CHEW			34XX-44XX
Chemistry Cap	CHEW \$702		Science (Core)	τ əsooyጋ
		leoit	ilo9\tn9mn19v0D	V 15
Differential Er	Isitnereftig 142 Differential		eimədƏ leəitylenA	CHEW 5707
Physical Chem	CHEW 3704	stry	eimədƏ leəitylenA	CHEW 2307
		C	Biochemistry I Lab	CHEW 3703
Physical Chem	CHEN 330V		Biochemistry I	CHEW 3303
ОКТН .	0-1	Я	AJY UNI	

SECOND YEAR

Creative Arts (Core)	t ssood)
Learning Option (Core)	
Integrative/Experiential	t əsoodə
General Physics II	рнуу 1402
Organic Chemistry II Lab	CHEW 5752
Organic Chemistry II	CHEW 2325
American History (Core)	ұ әѕоочЭ
Vhqosolih9 ,986u8n61	t ssood)
General Physics I	торт 27401
Organic Chemistry I Lab	CHEW 5753
Organic Chemistry I	CHEW 2323

Integrative/Experiential Learning Option (Core)	т әѕоочጋ	
American History (Core)	т әѕоочЭ	
ll sulusid	MATH 2414	
ll YıtsimədƏ lanənəÐ	CHEW JJJZ	
General Chemistry II	СНЕМ 7375	
(Sommunication (Core)	t əsood)	
Learning Framework	τοετ λινη	
Social and Behavioral Sciences (Core)	τ əsooyጋ	
l sulusis	8142 HTAM	
del l VitsimədD lerənəD	СНЕМ ТТТТ	
General Chemistry I	СНЕМ ТЗТТ	
(Onmunication (Core)	т эгоочЭ	

ACADEMIC PLAN

AAAY TZAIA



Students receiving the BS Degree in 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**



FIRST YEAR

UTRGV has a Writing Center and a Learning Center. Make

[■] □ Complete your core English classes (section 010) during

• Complete 30 credit hours every year in order to graduate

Take MATH 2413 and MATH 2414 in your first year.

Meet with your academic advisor and bring your

Choose a major with confidence- Visit my.UTRGV.edu

Visit a faculty member during their office hours and ask a

Classes fill up fast. When registration opens, be sure to

Cold or flu getting you down? We have Student Health

Look for a service-learning course! For guidance, visit

Participate in a campus-sponsored community service

Chemical Society or visit VLink (utrgv.edu/vlink) for

Create a résumé and set up your profile on the Career

Got summer plans? Visit Career Center and ask about

Research shows that students who work on campus

perform better than those who work off campus. Look

Check your UTRGV email for the daily Messenger- locate

orientation folder with you to every session!

and check out the Kuder Journey.

register on the first day for your group.

Services on campus with free office visits.

Engaged Scholarship & Learning Office.

Ask a student in class to study with you.

Connection icon: (My.UTRGV.edu).

places to do some job shadowing.

for a job on the Career Center portal!

and attend one student workshop.

question about class.

SECOND YEAR

Complete major foundation classes, such as CHEM

1111/1311; 1112/1312; 2123/2323; 2125/2325

Want to explore different careers? Check out

questions when you visit your academic advisor.

Financial Aid Office can help. Payment plans and

□ Visit the Communication Hauser Lab for help with

Come ready with course suggestions and

□ Trouble making your tuition payment? The

To find undergraduate research opportunities,

Consider attending the LeaderShape Institute or

attend the Engaged Scholar Symposium.

Look at study abroad opportunities! Consider

such as HESTEC or FESTIBA.

VLink for options.

have it reviewed.

discuss internships.

bring a friend!

going to South America, Europe, Africa or Asia

□ Check out a cultural campus or community event

□ Join another student organization. Perhaps an

□ Check out a campus event that offers free lunch-

Update your resume in Career Connection and

□ Visit the Career Center site to find a job fair to

□ Will a minor expand your career options? We

attend. At the event, approach a recruiter and

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.

organization that aligns with your interest or visit

visit the Engaged Scholarship & Learning Office.

emergency loans are also available

□ Shoot for a GPA of 4.0.

Complete 30 credit hours.

Kuder Journey!

your speeches.

	TH	IRD	YEAR
--	----	-----	------

opportunities. Discuss this with your advisor, faculty

creative works at the Engaged Scholar Symposium!

committee or become a student leader and make a

opportunities at Office for International Programs &

difference. Visit VLink or speak with your Student

Government Association for more information!

Check out the Chemistry department website for

□ Think about three people you can ask for letters of

recommendation (professors, mentors, advisors,

supervisors, etc.). Give them at least two weeks'

□ When is the deadline for your graduate school

application? Visiting the program admissions

webpage. Most do not accept late applicants!

□ Sharpen your writing skills! Take an intensive writing

course such as ENGL -3351 Creative Writing I or

become the secretary for your organization.

□ Consider serving on a campus life/community

□ Travel the world! Look into study abroad

postings on career/graduate school.

Partnerships.

advance notice!

□ Apply for internship and/or job shadowing

□ Go show off your research, service-learning or

for graduation next year.

mentor, or Career Center.

	Shoot for a GPA of 4.0.	Shoot for a GPA
	Complete 30 credit hours.	"I have a plan fo
	Have you landed an internship or acquired research experience? This is the year to make it happen.	great! If not, vis
		Register for you 4305.
		Complete at lea
		Submit your ap apprenticeship,
	Seek out research opportunities within your major and join a professional organization such as American Chemical Society.	Engage in an in internship to co Chemicals, Proc
	Check DegreeWorks to make sure you are on track	Discuss future

- plans with your faculty mentor or advisor that includes employment, finances, and other life goals.
- ensure you are on track.

Hauser Lab.

fellowships, etc.

Center services!

studentloans.gov.

Continue to present research or creative works at the Engaged Scholar Symposium or at regional ACS meetings and other undergraduate symposia $\hfill\square$ Set up an informational interview with an individual (especially an alumnus) currently in the field you aspire to work in. Identify employers of interest and seek them out at job

Set up your profile on the Engagement Zone through My.UTRGV.edu. **GLOBAL, CAMPUS** T Attend a diversity based campus or community event (e.g. MLK Day of Service). & COMMUNITY • Attend a departmental program such as Chemistry Major **ENGAGEMENT** Get Together. Join a student organization! Consider looking into Elliott

• 🗆

•

* 🗆

•

•

project.

options

. 🗆

MILESTONES

ADVICE &

SUPPORT

APPLY WHAT

YOU LEARN

it a point to visit them!

your first year.

□ Shoot for a GPA of 4.0

in 4 vears

LIFE AFTER GRADUATION

UTRio Grande Valley

FOURTH YEAR **AND BEYOND**

A of 4.0.

- for after graduation." If this describes you, sit your Faculty Advisor or Career Center!
- ur Capstone/senior/portfolio project: CHEM
- ast 30 credit hours to graduate.
- oplication(s) for graduate school, an or for fulltime employment.
- dependent study project or an academic omplement your major, such as Dow ctor and Gamble etc.
- □ Apply for graduation one semester prior to your anticipated date. Visit the Academic Advising Center to

- 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
- 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.
- $\hfill\square$ Formulate and implement a strategy for life after graduation: attend career fairs, graduate fairs, apply to
- □ Update your information with Alumni Relations. Enjoy alumni mixers, events and continued access to Career
- □ Remember to do 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