

COLLEGE OF SCIENCES

PHYSICAL SCIENCE (BS) *6th-12th UTeach Certification Catalog: 2017-18

UTRio Grande Valley

AAAY OAIHT

| UTCH 3302 | Classroom Interactions |
|-----------|--|
| PHYS 3304 | Optics |
| рнуз 3330 | gnileboM bns snoitonu 1 |
| CHEW 2307 | Analytical Chemistry لاما |
| UTCH 3301 | ni gninseJ bns gniwonX Athematics and Science |
| τ əsooyጋ | Integrative/Experiential Learning Option (Core) |
| t əsood) | Government/Political Science (Core) |
| РНІС 3317 | Perspectives on Science and Mathematics |
| рнуз 3101 | l dərətory Research l |
| тоее syнq | Electromagnetic Theory I |
| | |

| gnidɔɕəT əɔitnərqqA | 1094 HOTU |
|--------------------------------|-----------|
| Apprentice Teaching Seminar | UTCH 4101 |
| Chemistry Education | CHEW 440J |
| Project-Based Instruction | UTCH 3303 |
| Research Methods | 2654 27H9 |
| γວຄາອtil ຄອາA tnອtnoϽ | READ 4305 |
| Physics Education | ፲0ኯኯ ሪሳባ |
| Biochemistry I | CHEW 3303 |

SECOND YEAR

| Science (Core) | τ | |
|---------------------------|-----------|--|
| Government/Political | [bsood] | |
| Culture (Core) | | |
| کم γhqosolih۹ (sgeugne) ک | τ | |
| American History (Core) | τ | |
| | | |
| Modern Physics | PHYS 3402 | |
| Organic Chemistry II Lab | CHEW 5752 | |
| Organic Chemistry II | CHEW 2325 | |
| American History (Core) | τ əsooyጋ | |
| | | |
| Organic Chemistry I Lab | CHEW 5753 | |
| Organic Chemistry I | CHEW 2323 | |
| Ρhysics for Teachers II | PHYS 2412 | |
| III sulusieS | 2415 HTAM | |

Contact Info

Department Chair

Dr. Soma Mukherjee

soma.mukherjee@utrgv.edu

Department Locations:

Edinburg

EPHYS 1.128

Phone: 956-665-2531

Brownsville

BLHSB 2.226

Phone: (956) 882-6679

AAAY HTAUOA

Additional Info

Students must apply to the UTeach program.

the students are required to take: Life and Physical Sciences – 6 hours

lecture)

lecture)

Mathematics – 3 hours

Requirements.

Students must fulfill the General Education Core

requirements. Within the General Education Core

CHEM 1301 General Chemistry I (three-hour

CHEM 1302 General Chemistry II (three-hour

Integrative/Experiential Learning Option – 6 hours

CHEM 1101 General Chemistry I (one-hour lab)

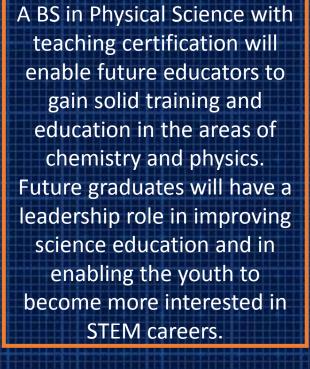
Any additional course(s) of 4 credits or more

"Integrative/Experiential Learning Option"

CHEM 1102 General Chemistry II (one-hour lab)

MATH 2413 Calculus I (three hour lecture)

that satisfies General Education Core



Degree Info

AAAY TZAIA

| noused Lesson Design | 2011 HOTU |
|--|-----------|
| Integrative/Experiential Learning Option (Core) | τ əsooyጋ |
| Ρhysics for Teachers I | рнуs 2411 |
| General Chemistry II Lab | CHEM TTTS |
| General Chemistry II | CHEM T3TS |
| Calculus II | 4142 HTAM |
| Communication (Core) | τ əsooyጋ |
| Learning Framework | τοέτ λινη |
| Creative Arts (Core) | τ əsooyጋ |
| Social and Behavioral Sciences (Core) | τ əsooyጋ |
| to shoaches to Teaching | τοττ ΗጋΤυ |
| General Chemistry I Lab | СНЕМ ТТТТ |
| General Chemistry I | СНЕМ ТЗТТ |
| Calculus I | 6142 HTAM |
| Communication (Core) | τ əsooyጋ |

ACADEMIC PLAN

' Expe

FIRST YEAR

SECOND YEAR

| THIRD YEAR |
|------------|
| |

| Δ | Ν |
|---|---|

| | | | | All |
|---|--|--|---|--|
| 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 3.5 or higher. Take MATH 2413 in your first year. | Shoot for a GPA of 3.5 or higher. Complete major foundation classes, such as PHYS 3305, PHYS 3303, PHYS 3304, PHYS 3402, PHYS 3411, UTCH 1101, UTCH 1102, UTCH 3301, UTCH 3302, PHYS 3330, and MATE 3317. Complete 30 credit hours. Apply to the UTeach program. For more information visit <u>www.utrgv.edu/cep</u>. | Shoot for a GPA of 3.5 or higher. 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 Complete at least 3 Submit your applic apprenticeship, or |
| 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 Kuder Journey. 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 Kuder Journey. 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 the APS (American Physical Society) or the AAS (American Astronomical 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 Educational Physics Discuss future plan that includes emplo Apply for graduatic anticipated date. V ensure you are on the second second |
| 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! | Continue to preser Engaged Scholar Sy Astronomy and/or 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 programs such as the weekly seminars. Join a student organization! Consider looking into the SPS (Society of Physics Students) and/or Astronomy Club. | Look at study abroad opportunities! Check out a cultural campus or community event such as HESTEC or FESTIBA. Join another student organization. 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 of Before a job intervi Career Center or sp 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 the Astronomy Minor. Explain to someone how your academic program aligns with your strengths and interests. | Check out the Physics & Astronomy 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 y studentloans.gov. |

UTRio Grande Valley



.

FOURTH YEAR ID BEYOND

- f 3.5 or higher.
- after graduation." If this describes you, your Faculty Advisor or Career Center!
- 30 credit hours to graduate.
- cation(s) for graduate school, an r for fulltime employment.
- pendent study project or an academic plement your major, such as an cs research project.
- ns with your faculty mentor or advisor loyment, 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 Physics and/or r Educational conferences.
- tional interview with an individual nnus) currently in the field you aspire to
- s of interest and seek them out at job -campus information sessions, staffing Career Center can help.
- view, schedule a mock interview with the speech coaching with the Communication
- your acceptance for graduate school or ffer? If not, network: talk to faculty, the get on LinkedIn.
- plement a strategy for life after career fairs, graduate fairs, apply to
- mation with Alumni Relations. Enjoy ents and continued access to Career
- your exit loan counseling on

CAREERS

- Teaching
- Computer software development
- Educational research
- Writing and editing •
- Library and information Sciences
- Public school systems
- Private schools
- Publishing companies:
 - o **Books**
 - Magazines
 - Videos
- Software
- developers
- Libraries

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