- Any additional course of 1 credit or more that satisfies General Education Core "Integrative/Experiential Learning Option" **Requirements.**
- (one-hour lab) PHYS 2426 Physics for Scientists and Engineers II (one-hour lab)
- CSCI 1380 Computer Science I PHYS 2425 Physics for Scientists and Engineers I
- Integrative/Experiential Learning Option 6 hours
- <u> Mathematics 3 hours</u> MATH 2413 Calculus I (three hour lecture)
- (three-hour lecture) PHYS 2426 Physics for Scientists and Engineers II (three-hour lecture)
- Life and Physical Sciences 6 hours PHYS 2425 Physics for Scientists and Engineers I
- You must apply to the UTeach program. Students must fulfill the General Education Core requirements. Within the General Education Core the students are required to take:

Additional Info

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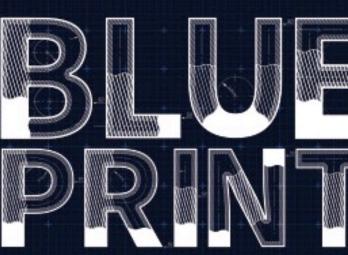
Brownsville **BLHSB 2.226** Phone: (956) 882-6679

Department Locations: Edinburg **EPHYS 1.128** Phone: 956-665-2531

Department Chair Dr. Soma Mukherjee soma.mukherjee@utrgv.edu

Contact Info

PHYSICS (BS) *Pure and Applied Physics Catalog: 2018-19 **COLLEGE OF SCIENCES**



UTRioGrande Valley

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Science Elective	XXEX
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	PHYS 3302	Electromagnetic Theory II
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PHYS 4108 Seminar in Physics

PHYS 4101 Laboratory Research

PHYS 4303 Quantum Mechanics I

PHYS 3304 Optics

PHYS 3301 Electromagnetic Theory I

PHYS 4101 Senior Lab. Ro PHYS 4201 Advanced Phy

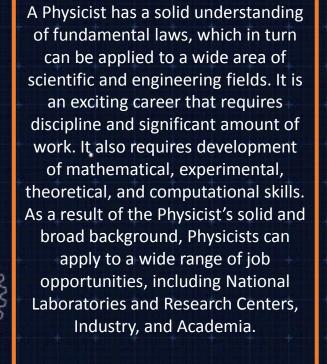
γ λydosoling (agengae) T 92004) Choose 2 PHYS 4305 Statistical Mechanics

PHYS X3XX Advanced Physics Electiv

III sulusias Calculus III **SECOND YEAR**

Free Elective X Science Elective X Government/Political Science J 920 Y 2426 Physics for Scientists & Engr. II

Free Elective XXEX Government/Political Science T 92004J Modern Physics 7045 SY Science Elective X TH 3341 Differential Equations



Degree Info

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TAM	noiteoinummoO 🏻 🗅 🕯	esooy

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

Computer Science I

American History

C2CI 7380

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FIRST YEAR

SECOND YEAR

THIRD YEAR

				AND
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, and PHYS 3411. Complete 30 credit hours. 	 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 3. "I have a plan for aff great! If not, visit you Register for your Cap 4300. Complete at least 30 Submit your applicat apprenticeship, or for
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 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 indeperinternship to comple Astronomy research Discuss future plans that includes employ Apply for graduation anticipated date. Vis ensure you are on training
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 present Engaged Scholar Sym Astronomy conferen Set up an informatio (especially an alumn 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 lunch- bring 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 o fairs, online, at on-ca agencies, etc. The Ca Before a job interview Career Center or spe 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 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 you an employment offee Career Center, and generation: attend content of the fellowships, etc. Update your information alumni mixers, event Center services! Remember to do you studentloans.gov.

UTRio Grande Valley



FOURTH YEAR ND BEYOND

of 3.5 or higher.

- after graduation." If this describes you, your Faculty Advisor or Career Center!
- Capstone/senior/portfolio project: PHYS
- 30 credit hours to graduate.
- ication(s) for graduate school, an r for fulltime employment.
- ----pendent study project or an academic plement your major, such as a Physics or rch project.
- 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 Physics and/or rences.
- tional interview with an individual mnus) currently in the field you aspire to
- rs 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 offer? 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

- Research
 - Development
 - Consulting
 - Engineering
 - (process and
 - testing)

- **Quality control**
- Instrumentation

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