http://www.utrgv.edu/hbs/undergraduateprograms/bs-bmed-hybrid/bmed-applicationinstructions/index.htm 2. Departmental admissions committee approval and selection into program. **Progression requirements** An overall GPA of 3.0 or better has to be maintained in BMED and non-BMED courses to obtain Departmental approval and stay in the program. **Graduation requirements** A grade of 'C' or better in Biomedical Sciences (Section B1) and in MATH 2413 (of MATH 2487 Honors) is required for graduation. *Note: All are subject to change pending departmental and curricular committee advisories.

and Alternative Medicine

Medical Syndromes

and Systems Biology

Medical Immunology

Medical Microbiology

Pathophysiology

Introduction to Complementary

Pathobiology and Host Detense

Government/Political Science

Integrative and Experiential Learning

Integrative and Experiential Learning

Medical Bioinformatics, Genomics,

Engineering and Medical Science

Applied Statistics for Science,

Government/Political Science

FOURTH YEAR

Additional Info

Human Genetics and Medical Genomics

Admission requirements

1. Secondary application

Brownsville Campus (956) 882-7383 BRHP 1.101 Edinburg Campus (956) 665 5269 EHABW 2.206 Sylvia.Garcia@utrgv.edu healthandbiomedicalsciences@utrgv.edu **BIOMEDICAL** SCIENCES (BS) Catalog: 2018-19 **COLLEGE OF HEALTH AFFAIRS**

UTRio Grande Valley

The degree explores the application of powerful modern bioscience approaches such as molecular cell biology, molecular genetics and genomics, as well as anatomy, physiology, and neuroscience to human health. It is a preparatory

Degree Info

degree for tomorrow's health care

professionals and leaders and thus

prepares students for successful

admission to professional schools in

medicine, dentistry, veterinary medicine,

pharmacy, physical therapy, and

physician assistant programs as well as

graduate studies in biomedical sciences.

2018-2019 ACADEMIC PLAN

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Creative Arts Organic Chemistry I Lab **CHEM 5153** CHE

BMED 1108 Choose 1

BWED 3104

BWED 3108 Integrated Body Systems I: Cardiovascular

Hematology and Musculoskeletal Integrated Body Systems V: Dermatology, and Pulmonary

Introduction to Biomedical II Lab Gross Anatomy Introductory Medical Physiology

Independent Research I BMED 5101 BMED 1110

Organic Chemistry II **CHEM 5352 BWED 3151 BMED 1111**

Choose 1 **b2XC 5301 2421 HTAM CHEM 5152**

BWED 3102 Elementary Statistical Methods

BWED 310

Contact Info

Department Chair: Dr. Saraswathy Nair

Saraswathy.Nair@utrgv.edu

Department Associate Chair: Ms. Kim Garcia

Kim.Garcia@utrgv.edu

BMED Program Manager: Ms. Rosalinda Garza

Rosalinda.Garza@utrgv.edu

Department Locations

THIRD YEAR

Independent Research III **BWED 3153** Human Behavior **BWED 3103 BWED 4580** Neurochemistry **BWED 3105** General Physics I PHYS 1401 American History Choose 1

Calculus I **E142 HTAM** Advanced Medical Neuroscience

General Physics II American History Choose 1

Advanced Elective Independent Research IV **BWED 315**¢ **BWED 4500** Advanced Cell Biology **BWED 4520** Medical Biochemistry **BWED 4310** PHYS 1402

Advanced Molecular Biology

"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.

BWED 4510

BWED 3100

BWED 3101

BWED 4595

Choose 1

Choose 1

Choose 1

BWED 4550

BWED 4530

BWED 4500

BWED 4440

1088 TATS

Choose 1

Choose 1

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

Independent Research II **BWED 3155** Endocrine and Reproduction Integrated Body Systems IV: Renal, Fluid and Electrolytes Integrated Body Systems III: **BWED 3109** Gastrointestinal Systems Integrated Body Systems II: Language, Philosophy & Culture General Psychology

Organic Chemistry II Lab

Introductory Medical Meuroscience

Introductory Cell Biology **BWED 1103** Introductory Medical Biochemistry BMED 1101 General Chemistry I Lab CHEM 1111 General Chemistry I CHEW 1311 Communication Choose 1 **FIRST YEAR**

Spanish Elective General Chemistry II Lab CHEW 1115 General Chemistry II **CHEW 1315** Communication Choose 1 Learning Framework **UNIV 1301** Introduction to Biomedical Lab. I **BMED 1105** Molecules, Cells and Tissues **BWED 5105** Introductory Molecular Biology BWED 1104

Evolutionary Medicine BMED 1109 Introductory Immunology **BMED 1107** Introductory Medical Microbiology **BWED 1109** Introductory Medical Genetics **BWED 1102** Choose 1

JEPRINT EXPERIENCES

	FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR AND BEYOND
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 1314 in your first year. 	 □ Shoot for a GPA of 3.5 or higher. □ Complete 30 credit hours. □ Apply to the Honors College and Summer Internships program. The deadline is usually early spring. □ You should have finished your first program mandatory diagnostic assessment by start of second year. 	 □ 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. □ You should have finished your second program mandatory diagnostic assessment by start of third year. 	 □ Shoot for a GPA of 3.5 or higher. □ "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: BMED 3124. □ You should have finished your third program mandatory diagnostic assessment by start of fourth year.
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. 	 □ 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 Medical Student Association. 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. Visit Writing Center to improve your writing skills. 	 Discuss future plans with your faculty mentor or advisor 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. Set up an informational interview with an individual (especially an alumnus) currently in the field you aspire to work in.
APPLY WHAT YOU LEARN	 □ Cold or flu getting you down? We have Student Health Services on campus with free office visits. □ 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. □ Start applying for summer internships at research intensive institutions to get research experience 	 □ MCAT, PCAT, DAT or GRE preparation □ To find undergraduate research opportunities, visit the Engaged Scholarship & Learning Office. □ Start applying for summer internships at research intensive institutions to get research experience □ Engage in Service to community, Research and Clinical Experiences 	 □ MCAT, PCAT, DAT or GRE preparation □ Start applying for summer internships at research intensive institutions to get research experience □ Engage in Service to community, Research and Clinical Experiences □ Go show off your research, service-learning or creative works at the Engaged Scholar Symposium! 	 □ Take the actual MCAT, PCAT, DAT or GRE exams and submit applications for Medical, PA, Dental, Pharmacy or Graduate schools or post-baccalaureate programs □ Continue to present research at the Engaged Scholar Research Symposium or at National conferences such as ABRCMS or SACNAS.
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). □ Join a student organization! Consider looking into BSA (Biomedical Student Association), Medical Brigades and others (http://www.utrgv.edu/hbs/student-engagement/student-organizations/index.htm) or visit VLink (utrgv.edu/vlink) for options	 □ Look at study abroad opportunities! Consider going on Medical Brigades missions, VAW etc. □ Check out a cultural campus or community event such as HESTEC or FESTIBA. □ Join another student organization. Perhaps L2S, T4A (http://www.utrgv.edu/hbs/student-engagement/student-organizations/index.htm) or visit VLink for options. 	Consider serving on a campus life/community committee or become a student leader and make a difference. Visit (http://www.utrgv.edu/hbs/student-engagement/student-organizations/index.htm), 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 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 Psychology, Chemistry, Biology, Medical Spanish, Medical Humanities etc. □ Explain to someone how your academic program 	Check out the http://www.utrgv.edu/hbs/index.htm 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 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

- Some areas of Specialization:
 - o Biophysics
 - o Biochemistry
 - o Cellular and molecular biology
 - o **Genetics**
- Immunology
- Pathology
- Pharmacology
- Physiology
- Virology
- Colleges/universities
- Professional schools: colleges of pharmacy, dentistry, medicine, veterinary medicine, & agriculture
- Federal government:
 - National Institutes of Health
 - o Centers for Disease Control/Prevention
 - o Food and Drug Administration
- State and local public health departments
- Clinics and hospitals
- Private research foundations
- Independent laboratories
- Pharmaceutical companies

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

webpage. Most do not accept late applicants!

Remember to do your exit loan counseling on

studentloans.gov.