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.

**Edinburg Campus (956) 665 5269 EHABW 2.206** Sylvia.Garcia@utrgv.edu healthandbiomedicalsciences@utrgv.edu BIOMEDICAL SCIENCES BS) Catalog: 2019-20 **COLLEGE OF HEALTH** \*\*\*\*\*\* **PROFESSIONS** 

UTRio Grande Valley

**Additional Info** 

**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** 

**Brownsville Campus (956) 882-7383** 

**BRHP 1.101** 

# **SECOND YEAR**

# **FIRST YEAR**

# **FOURTH YEAR**

and Alternative Medicine

Medical Syndromes

and Systems Biology

Medical Immunology

Medical Microbiology

Pathophysiology

Introduction to Complementary

Pathobiology and Host Defense

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

Human Genetics and Medical Genomics

**Admission requirements** 

1. Secondary application

# **THIRD YEAR**

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

Advanced Elective

Independent Research IV

Advanced Cell Biology

Medical Biochemistry

Independent Research III

Advanced Medical Neuroscience

General Physics II

American History

Human Behavior

Meurochemistry

General Physics I

Calculus I

Advanced Molecular Biology

"Choose 1" Indicates course options. If options are not listed, please review the General Education Core or the degree plan for this major:

**BWED 4510** 

**BWED 3100** 

**BWED 3101** 

**BWED 4592** 

Choose 1

Choose 1

Choose 1

**BWED 4550** 

**BWED 4530** 

**BWED 4**500

BWED 4440

1088 TATS

Choose 1

# American History Choose 1

2019-2020 ACADEMIC PLAN

# Organic Chemistry I

# **CHEM 5153 CHEM 5353**

### Creative Arts Choose 1 Organic Chemistry I Lab

## and Pulmonary Integrated Body Systems I: Cardiovascular Introductory Medical Meuroscience

# **BWED 3104 BWED 1108**

# **BWED 3108**

## BMED 1110 Hematology and Musculoskeletal Integrated Body Systems V: Dermatology,

### Independent Research I **BWED 3151** Introduction to Biomedical II Lab **BWED 1111** Introductory Medical Physiology

MED 2101	Stoss Anatomy
t əsood	Language, Philosophy & Culture
2YC 2301	General Psychology
SAEL HTAN	Elementary Statistical Methods
HEM STS2	Organic Chemistry II Lab
HEM 5352	Organic Chemistry II

# Sulture.

Independent Research II

Endocrine and Reproduction

2004242 legitactaicataca	
Integrated Body Systems II:	<b>WED 3702</b>
Gross Anatomy	<b>WED 5101</b>
במווצממצבי בוווספסטוול מיכמו	T ASOOH

ac binda legod	
Integrated Boo	<b>BWED 3709</b>
Gastrointestin	

# **BWED 310**

## Integrated Body Systems IV: Kenal, Fluid and Electrolytes :III swajskę kpo si systems

**BWED 3155** 

# Evolutionary Medicine Introductory Immunology

Introductory Medical Microbiology

Introductory Medical Genetics

Introduction to Biomedical Lab. I

Introductory Molecular Biology

Introductory Medical Biochemistry

Molecules, Cells and Tissues

Introductory Cell Biology

General Chemistry I Lab

**Degree Info** 

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 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.

General Chemistry I

Communication

General Chemistry II Lab

General Chemistry II

Learning Framework

Spanish Elective

Communication

**BWED 1109** 

**BWED 1107** 

**BWED 1109** 

**BWED 1102** 

CHEW 1115

**CHEW 1315** 

Choose 1

Choose 1

**UNIV 1301** 

**BWED 1105** 

**BWED 5105** 

BWED 1104

**BWED 1103** 

BWED 1101

CHEM 1111

CHEW 1311

Choose 1

Choose 1

**BWED 315**¢

**BWED 4500** 

**BWED 4520** 

**BWED 4310** 

PHYS 1402

Choose 1

E142 HTAM

**BWED 3153** 

**BWED 3103** 

**BWED 4580** 

**BWED 3105** 

PHYS 1401

# BLUEPRINT EXPERIENCES

	FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR AND BEYOND	• S
MILESTONES	<ul> <li>□ UTRGV has a Writing Center and a Learning Center. Make it a point to visit them!</li> <li>□ Complete your core English classes (section 010) during your first year.</li> <li>□ Complete 30 credit hours every year in order to graduate in 4 years.</li> <li>□ Shoot for a GPA of 3.5 or higher.</li> <li>□ Take MATH 1314 in your first year.</li> <li>□ Meet with your academic advisor and bring your</li> </ul>	<ul> <li>□ Shoot for a GPA of 3.5 or higher.</li> <li>□ Complete 30 credit hours.</li> <li>□ Apply to the Honors College and Summer Internships program. The deadline is usually early spring.</li> <li>□ You should have finished your first program mandatory diagnostic assessment by start of second year.</li> <li>□ Want to explore different careers? Check out</li> </ul>	<ul> <li>□ Shoot for a GPA of 3.5 or higher.</li> <li>□ Complete 30 credit hours.</li> <li>□ Have you landed an internship or acquired research experience? This is the year to make it happen.</li> <li>□ You should have finished your second program mandatory diagnostic assessment by start of third year.</li> <li>□ Seek out research opportunities within your major</li> </ul>	<ul> <li>□ Shoot for a GPA of 3.5 or higher.</li> <li>□ "I have a plan for after graduation." If this describes you, great! If not, visit your Faculty Advisor or Career Center!</li> <li>□ Register for your Capstone/senior/portfolio project: BMED 3124.</li> <li>□ You should have finished your third program mandatory diagnostic assessment by start of fourth year.</li> <li>□ Discuss future plans with your faculty mentor or advisor</li> </ul>	• II
ADVICE & SUPPORT	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.	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	<ul> <li>and join a professional organization such as American Medical Student Association.</li> <li>Check DegreeWorks to make sure you are on track for graduation next year.</li> <li>Apply for internship and/or job shadowing opportunities. Discuss this with your advisor, faculty mentor, or Career Center.</li> <li>Visit Writing Center to improve your writing skills.</li> </ul>	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.	<ul><li>P</li><li>P</li><li>V</li><li>C</li><li>P</li><li>St</li><li>p</li></ul>
APPLY WHAT YOU LEARN	<ul> <li>Look for a service-learning course! For guidance, visit Engaged Scholarship &amp; Learning Office.</li> <li>Participate in a campus-sponsored community service project.</li> <li>Ask a student in class to study with you.</li> <li>Start applying for summer internships at research intensive institutions to get research experience</li> </ul>	<ul> <li>□ MCAT, PCAT, DAT or GRE preparation</li> <li>□ To find undergraduate research opportunities, visit the Engaged Scholarship &amp; Learning Office.</li> <li>□ Start applying for summer internships at research intensive institutions to get research experience</li> <li>□ Engage in Service to community, Research and Clinical Experiences</li> </ul>	<ul> <li>□ MCAT, PCAT, DAT or GRE preparation</li> <li>□ Start applying for summer internships at research intensive institutions to get research experience</li> <li>□ Engage in Service to community, Research and Clinical Experiences</li> <li>□ Go show off your research, service-learning or creative works at the Engaged Scholar Symposium!</li> </ul>	<ul> <li>□ Take the actual MCAT, PCAT, DAT or GRE exams and submit applications for Medical, PA, Dental, Pharmacy or Graduate schools or post-baccalaureate programs</li> <li>□ Continue to present research at the Engaged Scholar Research Symposium or at National conferences such as ABRCMS or SACNAS.</li> </ul>	n n • F
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	<ul> <li>□ Look at study abroad opportunities! Consider going on Medical Brigades missions, VAW etc.</li> <li>□ Check out a cultural campus or community event such as HESTEC or FESTIBA.</li> <li>□ Join another student organization. Perhaps L2S, T4A (<a href="http://www.utrgv.edu/hbs/student-engagement/student-organizations/index.htm">http://www.utrgv.edu/hbs/student-engagement/student-organizations/index.htm</a>) or visit VLink for options.</li> </ul>	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.	<ul> <li>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.</li> <li>Before a job interview, schedule a mock interview with the Career Center or speech coaching with the Communication Hauser Lab.</li> </ul>	• S h • C • P
LIFE AFTER GRADUATION	<ul> <li>Create a résumé and set up your profile on the Handshake icon: (My.UTRGV.edu).</li> <li>Got summer plans? Visit Career Center and ask about places to do some job shadowing.</li> <li>Research shows that students who work on campus perform better than those who work off campus. Look for a job on Handshake!</li> <li>Check your UTRGV email for the daily Messenger- locate and attend one student workshop.</li> </ul>	<ul> <li>□ Update your resume in Handshake and have it reviewed.</li> <li>□ Visit the Career Center site to find a job fair to attend. At the event, approach a recruiter and discuss internships.</li> <li>□ Will a minor expand your career options? We recommend Psychology, Chemistry, Biology, Medical Spanish, Medical Humanities etc.</li> <li>□ Explain to someone how your academic program</li> </ul>	☐ Check out the <a href="http://www.utrgv.edu/hbs/index.htm">http://www.utrgv.edu/hbs/index.htm</a> 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 weeksage. Most do not accept late applicants!	<ul> <li>☐ 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.</li> <li>☐ Formulate and implement a strategy for life after graduation: attend career fairs, graduate fairs, apply to fellowships, etc.</li> <li>☐ Update your information with Alumni Relations. Enjoy alumni mixers, events and continued access to Career Center services!</li> </ul>	Fo

aligns with your strengths and interests.

## **CAREERS**

- Some areas of Specialization:
  - Biophysics
  - Biochemistry
  - Cellular and molecular biology
  - Genetics
- Immunology
- Pathology
- Pharmacology
- Physiology
- Virology
- Colleges/universities
- Professional schools: colleges of pharmacy, dentistry, medicine, veterinary medicine, & agriculture
- Federal government:
  - National Institutes of Health
  - Centers for Disease Control/Prevention
  - 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.