Progression requirements An overall GPA of 2.8 or better has to be maintained in BMED and non-BMED courses to stay in the program. Departmental approval <u>Graduation requirements</u> 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.

programs/bs-bmed-hybrid/bmed-application instructions/index.htm 2. Departmental approval and selection into 3YR Honors, 4YR Honors and 4YR Regular tracks.

Admission requirements 1. Secondary application

http://www.utrgv.edu/hbs/undergraduate-

## Additional Info

**AAAY HTAUOA** 

healthandbiomedicalsciences@utrgv.edu

Edinburg Campus (956) 665 5269 EHABW 2.206 <u>Sabine.Castillo@utrgv.edu</u>

Department Locations Brownsville Campus (956) 882-7383 BRHP 1.101 <u>Angela.Reyes@utrgv.edu</u>

Student Success Manager: Ms. Rosalinda Garza Rosalinda.Garza@utrgv.edu

Assoc. Department Chair: Ms. Kim Garcia <u>Kim.Garcia@utrgv.edu</u>

Department Chair: Dr. Saraswathy Nair <u>Saraswathy.Nair@utrgv.edu</u>

### **Contact Info**

# BIOMEDICAL SCIENCES (BS) Catalog: 2017-18



### UTRio Grande Valley

## **AAAY OAIHT**

		9vito9l3 b9onevbA	t əsood)	
В		VI dəpendent Research IV	BMED 3224	
8 8		Advanced Molecular Biology کام	BMED 4560	
В		γgoloi8 IIອϽ bອວnͼvbA	BWED 4520	
С		Ynedical Biochemistry	BWED <del>1</del> 370	
С		General Physics II	PHYS 1402	
С		American History (Core)	τ	
в		l sulusied	MATH 2413	
_		Independent Research III	<b>BWED 3553</b>	
В		roived98 nemuH	<b>BWED 3703</b>	
в		Neuroscience		
		lsɔibəM bəɔnsvbA	BMED 4280	
В		Neurochemistry	<b>BWED 3705</b>	
$\sim$		General Physics I	рнуу 1401	
С		American History (Core)	t ssood)	

γroduction to Complementary and Alternative Medicine	BMED 4270
səmorbny2 lsəibəM	<b>BMED 3109</b>
tsoH bne vgoloidodte9	BMED 3707
Pathophysiology	BMED 4295
lategrative and Experiential Learning (Core)	t əsood)
Integrative and Experiential	t əsood)
Government/Political Science (Core)	т эгоочЭ
Medical Bioinformatics, Genomics, and Systems Biology	BMED 4220
Human Genetics and Medical Genomics	BMED 4230
γǥolonumml lɕɔibəΜ	BMED 4290
Medical Microbiology	BMED 4540
l szitsitst2 b9ilqqA	<b>ΣΕΕΕ ΗΤΑΜ</b>
Science (Core)	
Government/ Political	t əsood)

## SECOND YEAR

Independent Research II	BWED 3755
امئوgrated Body Systems IV:Endocrine and Reproduction	BMED 3T02
اntegrated Body Systems ۱۱۱: Renal, Fluid and Electrolytes	BMED 3709
ill smətəv Systems II: Gastrointestinal Systems	BMED 3702
& vhqosolih9 ,эяеияпьJ	τ əsooyე
General Psychology	57C 2301
Sbortsitstistical Methods	2461 HTAN
Organic Chemistry II Lab	CHEW 5752
Organic Chemistry II	CHEW 2322
Independent Research I	3 MED 3757
Introduction to Biomedical II Lab	BMED 1111
Gross Anatomy	<b>3 WED 5707</b>
Physiology Physiology	<b>BMED 1110</b>
Integrated Body Systems V: Dermatology, Hematology and Muscoskeletal	3MED 3708
۱ smətev Systems I:	3 MED 3 T 0 <del>4</del>
Introductory Medical	3 MED 7708
Creative Arts (Core)	τ əsooy
Organic Chemistry I Lab	CHEW 2723
l YrtsimədD DinggrO	CHEW 2323

Evolutionary Medicine	BMED 1109		
Introductory Immunology	SMED 1107		
Microbiology	BMED 1106		
Introductory Medical			
Genetics	BMED 1105		
Spanish Elective Introductory Medical	L 920040		
General Chemistry II Lab	CHEM 1112		
General Chemistry II	CHEM 1312		
Communication (Core)	t ∋sood⊃		
Learning Framework	1061 VINU		
Laboratory I	BMED 1102		
Introduction to Biomedical			
sənssil	BMED 2102		
Molecules, Cells and			
Biology	loig torradius		
Introductory Molecular	BMED 1104		
Introductory Cell Biology	BMED 1103		
Biochemistry	BMED 1101		
Introductory Medical			
General Chemistry I Lab	CHEM 1111		
General Chemistry I	CHEM 1311		
Communication (Core)	r əsood J		

ACADEMIC PLAN

**AAAY TZAIA** 

## **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



UTRio Grande Valley

#### **FIRST YEAR**

#### **SECOND YEAR**

TH	RD	<b>YEAR</b>	
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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.</li> <li>Take MATH 1314 in your first year.</li> </ul>	<ul> <li>Shoot for a GPA of 3.5.</li> <li>Complete major foundation classes, such as BMED 1101-1111.</li> <li>Complete 30 credit hours.</li> <li>Apply to the Honors College and Summer Internships program. The deadline is usually early spring.</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> </ul>	<ul> <li>Shoot for a GPA of</li> <li>"I have a plan for a great! If not, visit y</li> <li>Register for your C 3224.</li> <li>Complete at least</li> <li>Submit your applic apprenticeship, or</li> </ul>
ADVICE & SUPPORT	<ul> <li>Meet with your academic advisor and bring your orientation folder with you to every session!</li> <li>Choose a major with confidence- Visit my.UTRGV.edu and check out the Kuder Journey.</li> <li>Visit a faculty member during their office hours and ask a question about class.</li> <li>Classes fill up fast. When registration opens, be sure to register on the first day for your group.</li> <li>Cold or flu getting you down? We have Student Health Services on campus with free office visits.</li> </ul>	<ul> <li>Want to explore different careers? Check out Kuder Journey!</li> <li>Come ready with course suggestions and questions when you visit your academic advisor.</li> <li>Visit the Communication Hauser Lab for help with your speeches.</li> <li>Trouble making your tuition payment? The Financial Aid Office can help. Payment plans and emergency loans are also available</li> </ul>	<ul> <li>Seek out research opportunities within your major 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> </ul>	<ul> <li>Engage in an indep internship to comp 3122, 3223.</li> <li>Discuss future plar that includes empl</li> <li>Apply for graduation anticipated date. V ensure you are on</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> </ul>	<ul> <li>To find undergraduate research opportunities, visit the Engaged Scholarship &amp; Learning Office.</li> <li>Consider attending the LeaderShape Institute or attend the Engaged Scholar Symposium.</li> </ul>	<ul> <li>Go show off your research, service-learning or creative works at the Engaged Scholar Symposium!</li> <li>Sharpen your writing skills! Take an intensive writing course such as or become the secretary for your organization.</li> </ul>	<ul> <li>Continue to preset Engaged Scholar S such as ABRCMS o</li> <li>Set up an informat (especially an alun work in.</li> </ul>
GLOBAL, CAMPUS & COMMUNITY ENGAGEMENT	<ul> <li>Set up your profile on the Engagement Zone through My.UTRGV.edu.</li> <li>Attend a diversity based campus or community event (e.g. MLK Day of Service).</li> <li>Attend a departmental program such as Student Success Academy, White coat ceremony etc.</li> <li>Join a student organization! Consider looking into BSA (Biomedical Student Association), Research labs or visit VLink (utrgv.edu/vlink) for options.</li> </ul>	<ul> <li>Look at study abroad opportunities! Consider going to Medical Brigades missions, VATW 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 or visit VLink for options.</li> <li>Check out a campus event that offers free lunch-bring a friend!</li> </ul>	<ul> <li>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!</li> <li>Travel the world! Look into study abroad opportunities at Office for International Programs &amp; Partnerships.</li> </ul>	<ul> <li>Identify employers fairs, online, at on- agencies, etc. The</li> <li>Before a job interv Career Center or s Hauser Lab.</li> </ul>
LIFE AFTER GRADUATION	<ul> <li>Create a résumé and set up your profile on the Career Connection 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 the Career Center portal!</li> <li>Check your UTRGV email for the daily Messenger- locate and attend one student workshop.</li> </ul>	<ul> <li>Update your resume in Career Connection 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 etc.</li> <li>Explain to someone how your academic program aligns with your strengths and interests.</li> </ul>	<ul> <li>Check out the <u>http://www.utrgv.edu/hbs/index.htm</u> department website for postings on career/graduate school.</li> <li>Think about three people you can ask for letters of recommendation (professors, mentors, advisors, supervisors, etc.). Give them at least two weeks' advance notice!</li> <li>When is the deadline for your graduate school application? Visiting the program admissions webpage. Most do not accept late applicants!</li> </ul>	<ul> <li>Have you received an employment of Career Center, and</li> <li>Formulate and imp graduation: attend fellowships, etc.</li> <li>Update your inform alumni mixers, eve Center services!</li> <li>Remember to do y studentloans.gov.</li> </ul>

#### **URTH YEAR** AND BEYOND

□ Shoot for a GPA of 3.5 or higher.

- after graduation." If this describes you, your Faculty Advisor or Career Center!
- Capstone/senior/portfolio project: BMED
- 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 BMED 3121,
- 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 track.
- nt research or creative works at the symposium or at National conferences or SACNAS.
- 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 d get on LinkedIn.
- plement a strategy for life after d career fairs, graduate fairs, apply to
- mation with Alumni Relations. Enjoy ents and continued access to Career
- your exit loan counseling on

#### 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