

		! H	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes		
FIRST YEAR	FALL		3	Choose 1	Communication (Core)	C	010	For all 010 courses: Satisfactory scores on ENGL portion of ACT test or TSI reading/writing exams or ENGL 0301. For ENGL 1302/1388, a grade of "C" or better in ENGL 1301/1387.	See General Education Core for more details Options: ENGL 1301 or ENGL 1387 (H)	
			3	CHEM 1311	General Chemistry I	C	030	MATH 1314, MATH 1414, MATH 1342, MATH 1343, MATH 1388, MATH 2412, MATH 2413, or MATH 2487 with a grade of "C" or higher."		
			1	CHEM 1111	General Chemistry I Lab	C	090	Credit/Registration in CHEM 1311		
			1	BMED 1101	Introductory Medical Biochemistry	C		Departmental approval	Mission 1	
			1	BMED 1103	Introductory Cell Biology	C		Departmental approval	Mission 2	
			1	BMED 1104	Introductory Molecular Biology	C		Departmental approval	Mission 1	
			1	BMED 2102	Molecules, Cells and Tissues	C		Departmental approval	Mission 2	
			1	BMED 1102	Introduction to Biomedical Laboratory I	C		Departmental approval		
					UNIV 1301	Learning Framework				Only if required, based on ACT/SAT and High School rank.
				<b>12 Semester Total Hours</b>						
FIRST YEAR	SPRING		3	Choose 1	Communication (Core)	C	010	For all 010 courses: Satisfactory scores on ENGL portion of ACT test or TSI reading/writing exams or ENGL 0301. For ENGL 1302/1388, a grade of "C" or better in ENGL 1301/1387.	See General Education Core for more details Options: ENGL 1302 or ENGL 1388 (H)	
			3	CHEM 1312	General Chemistry II	C	030	CHEM 1311.		
			1	CHEM 1112	General Chemistry II Lab	C	090	Credit/registration in CHEM 1312.		
			3	Choose 1	Spanish Elective					
			1	BMED 1105	Introductory Medical Genetics	C		Departmental approval	Mission 3	
			1	BMED 1106	Introductory Medical Microbiology	C		Departmental approval	Mission 4	
			1	BMED 1107	Introductory Immunology	C		Departmental approval	Mission 4	
			1	BMED 1109	Evolutionary Medicine	C		Departmental approval	Mission 3	
		<b>14 Semester Total Hours</b>								
SECOND YEAR	FALL		3	CHEM 2323	Organic Chemistry I	C				
			1	CHEM 2123	Organic Chemistry I Lab	C		Credit/registration in CHEM 2323.		
			3	Choose 1	Creative Arts (Core)		050		PHIL 1330 Strongly Recommended	
			1	BMED 1108	Introductory Medical Neuroscience	C		Departmental approval	Mission 5	
			1	BMED 3104	Integrated Body Systems I: Cardiovascular and Pulmonary	C		Departmental approval	Mission 5	
			1	BMED 3108	Integrated Body Systems V: Dermatology, Hematology and Musculoskeletal	C		Departmental approval	Mission 5	
			1	BMED 1110	Introductory Medical Physiology	C		Departmental approval	Mission 7	
			1	BMED 2101	Gross Anatomy	C		Departmental approval	Mission 7	
			1	BMED 1111	Introduction to Biomedical II Lab	C		Departmental approval		
			1	BMED 3121	Independent Research I	C		Departmental approval		
		<b>14 Semester Total Hours</b>								
SECOND YEAR	SPRING		3	CHEM 2325	Organic Chemistry II	C				
			1	CHEM 2125	Organic Chemistry II Lab	C		Credit/Registration in CHEM 2325		
			3	MATH 1342	Elementary Statistical Methods	C	020	College Ready TSI status in Mathematics.		
			3	PSYC 2301	General Psychology		080			
			3	Choose 1	Language, Philosophy & Culture (Core)		040		ENGL 2331 Strongly Recommended	
			1	BMED 3105	Integrated Body Systems II: Gastrointestinal Systems	C		Departmental approval	Mission 6	
			1	BMED 3106	Integrated Body Systems III: Renal, Fluid and Electrolytes	C		Departmental approval	Mission 6	
			1	BMED 3107	Integrated Body Systems IV:Endocrine and Reproduction	C		Departmental approval	Mission 6	
	1	BMED 3122	Independent Research II	C		Departmental approval				
		<b>16 Semester Total Hours</b>								

CORE: The 2018-2019 list of core courses can be found at: [www.utrgv.edu](http://www.utrgv.edu) > Academics > Undergraduate > General Education Core  
[www.utrgv.edu/core](http://www.utrgv.edu/core)

**Symbols Key**

**Critical (!):** sequence sensitive course.

**Minimum Grade:** A - Excellent; B - Good; C - Satisfactory; D - Below Average; CR - Credit; P - Passing; S - Satisfactory.

**General Education Core (GEC) Sections:** 010 - Communication; 020 - Mathematics; 030 - Life and Physical Sciences; 040 - Language, Philosophy & Culture; 050 - Creative Arts; 060 - American History; 070 - Government/Political Science; 080 - Social and Behavioral Sciences; 090 - Applied Communication and Literacies; 090 - Humanities; 090 - Leadership; 090 - Science Labs; 090 - Interdisciplinary; 090 - Technologies; 090 - Language Diversity & Writing.

**Language Proficiency Requirement:** Student is required to demonstrate language proficiency in a language other than English at the undergraduate level equivalent to a minimum of six credits.

		I	H	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes
THIRD YEAR	FALL	3		Choose 1	American History (Core)		060		See General Education Core for more details. Options: HIST 1301 or HIST 1387 or HIST/MASC 2327
		4		PHYS 1401	General Physics I		030	MATH 1414 or MATH 1314.	
		1		BMED 3102	Neurochemistry	C			Mission 8
		2		BMED 4280	Advanced Medical Neuroscience			Departmental approval	Mission 8
		1		BMED 3103	Human Behavior	C		Departmental approval	Mission 9
		1		BMED 3123	Independent Research III	C		Departmental approval	
		4		MATH 2413	Calculus I	C	020	MATH 2412 with a grade of 'C' or better; or passing the Precalculus Exemption Test administered by the Department of Mathematics.	
<b>16 Semester Total Hours</b>									
THIRD YEAR	SPRING	3		Choose 1	American History (Core)		060		See General Education Core for more details. Options: HIST 1302 or HIST 1388 or HIST/MASC 2328
		4		PHYS 1402	General Physics II		030	PHYS 1401.	
		3		BMED 4310	Medical Biochemistry			Departmental approval	Mission 10
		2		BMED 4250	Advanced Cell Biology			Departmental approval	Mission 11
		2		BMED 4260	Advanced Molecular Biology			Departmental approval	Mission 12
		1		BMED 3124	Independent Research IV	C		BMED 3123.	
		3		Choose 1	Advanced Elective				See Degree Plan for course options.
<b>18 Semester Total Hours</b>									
		I	H	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes
FOURTH YEAR	FALL	3		Choose 1	Government/Political Science (Core)		070		See General Education Core for more details. Options: POLS 2305 or POLS 2385 (H)
		3		STAT 3301	Applied Statistics for Science, Engineering and Medical Science	C			
		4		BMED 4440	Medical Microbiology			Departmental approval	Mission 16
		2		BMED 4290	Medical Immunology			Departmental approval	Mission 17
		2		BMED 4230	Human Genetics and Medical Genomics			Departmental approval	Mission 18
		2		BMED 4220	Medical Bioinformatics, Genomics, and Systems Biology			Departmental approval	Mission 19
		<b>16 Semester Total Hours</b>							
FOURTH YEAR	SPRING	3		Choose 1	Government/Political Science (Core)		070		See General Education Core for more details. Options: POLS 2306 or POLS 2386 (H)
		3		Choose 1	Integrative and Experiential Learning (Core)		090		See General Education Core for course options.
		1		Choose 1	Integrative and Experiential Learning (Core)		090		
		2		BMED 4295	Pathophysiology			Departmental approval	Mission 13
		1		BMED 3101	Pathobiology and Host Defense	C		Departmental approval	Mission 13
		1		BMED 3109	Medical Syndromes	C		Departmental approval	Mission 14
		2		BMED 4270	Introduction to Complementary and Alternative Medicine			Departmental approval	Mission 15
<b>13 Semester Total Hours</b>									

### Graduation Requirements

In addition to the graduation requirements listed in the UTRGV 2018-2019 Undergraduate Catalog, demonstration of proficiency in a language other than English is required at the undergraduate level equivalent to a minimum of six credit hours. Proficiency can be demonstrated by a college credit exam, a placement test approved through the UTRGV department of Writing and Language Studies, and/or to six credit hours of college-level language coursework.

### Note

This program leads to a profession which requires an occupational license as defined under Texas Occupations Code 58.001. This requires that all applicants seeking to become licensed must undergo a criminal background check prior to licensure.

**120 TOTAL HOURS**  
**(42) TOTAL ADVANCED HOURS**

Approved: Wednesday, March 28, 2018

Revised: Monday, July 2, 2018

Mission notation describes co-requisite requirements. Courses within a mission cannot be dropped individually, and must be taken together.  
Credit for MATH 1314/1414 should be received prior to initiating program (MATH exam available)  
BMED 2103 - Legal Med & Ethics - Strongly Recommended