

		I	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 English portion of ACT test and TSI examination or ENGL 0301. For ENGL 1302, a grade of "C" or better in ENGL 1301.	See General Education Core for more details Options: ENGL 1301	
			3	CHEM 1311	General Chemistry I (Core)	C	030	MATH 1314, MATH 1414, MATH 1342, MATH 1343, MATH 2412, MATH 2413 with a grade of "C" or higher."		
			1	CHEM 1111	General Chemistry I Lab (Core)	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 1101 Academic and Career Success 1001 Living and Working by Design				As required, based on credit hours earned, TSI status, High school rank, major declaration	
	<b>12 Semester Total Hours</b>									
SPRING		3	Choose 1	Communication (Core)	C	010	For all 010 courses: Satisfactory scores on English portion of ACT test and TSI examination or ENGL 0301. For ENGL 1302, a grade of "C" or better in ENGL 1301.	See General Education Core for more details Options: ENGL 1302		
		3	CHEM 1312	General Chemistry II (Core)	C	030	CHEM 1311.			
		1	CHEM 1112	General Chemistry II Lab (Core)	C	090	Credit/registration in CHEM 1312.			
		3	Choose 1	Spanish Elective				Spanish placement exam available		
		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					
			1	CHEM 2123	Organic Chemistry I Lab			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 1111	Introduction to Biomedical II Lab	C		Departmental approval		
			1	BMED 3121	Independent Research I			Departmental approval		
		<b>13 Semester Total Hours</b>								
	SPRING		3	CHEM 2325	Organic Chemistry II					
			1	CHEM 2125	Organic Chemistry II Lab			Credit/Registration in CHEM 2325		
			3	MATH 1342	Elementary Statistical Methods	C		College Ready TSI status in Mathematics.		
			3	PSYC 2301	General Psychology (Core)			080		
			3	Choose 1	Language, Philosophy & Culture (Core)			040	ENGL 2331 Strongly Recommended	
			1	BMED 2101	Gross Anatomy	C		Departmental approval	Mission 7	
			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			BMED 3121				
<b>17 Semester Total Hours</b>										

**CORE: The 2021-2022 list of core courses can be found in the 2021-2022 Undergraduate Catalog: [www.utrgv.edu/catalog](http://www.utrgv.edu/catalog) > See 'Core Curriculum'**

**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.

		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/MASC 2327	
			4	PHYS 1401	General Physics I			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			BMED 3122		
			4	MATH 2413	Calculus I (Core)	C	020	MATH 2412 with a grade of 'C' or better; or passing the Precalculus Exemption Test administered by the Department of Mathematics.	<b>Prerequisite for MATH 2412:</b> MATH 1314 or MATH 1414 with a grade of 'C' or better; or passing the College Algebra 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/MASC 2328	
			4	PHYS 1402	General Physics II			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			BMED 3123.		
			3	Choose 1	Advanced Elective				See Degree Plan for course options. Choose 3 advanced hours from BMED, PSYC, BIOL, CHEM, MATH, PHYS, HPRS, or CSCI.	
<b>18 Semester Total Hours</b>										
		I	H	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes	
FOURTH YEAR	FALL		3	POLS 2305	U.S. Federal Government & Politics (Core)		070		See General Education Core for course options.	
			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	POLS 2306	Texas Government & Politics (Core)		070		See General Education Core for course options.
				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>										

**120 TOTAL HOURS**

**(42) Advanced minimum credit hours**

Approved: Monday, October 11, 2021

Revised: Sunday, October 3, 2021

Mission notation describes co-requisite requirements. Courses within a mission cannot be dropped individually, and must be taken together.

Credit for MATH 1314/1414 are recommended prior to initiating program (MATH exam available)

**BMED 2103 - Legal Med & Ethics - Strongly Recommended; A GPA of 3.0 must be maintained for progression in the program.**