

**Bachelor of Science (BS)**  
**Biomedical Science**

The 2026-2027 list of core courses can be found in the 2026-2027 Undergraduate Catalog: [www.utrgv.edu/catalog](http://www.utrgv.edu/catalog) > See 'Bachelors Degree Program Regulations'

Symbols Key										
Campus: B - Offered in Brownsville; E - Offered in Edinburg; O - Offered Online; T - Travel Required										
Bolted Course Number*: Program Admission Requirement										
Min Grade: A - Excellent; B - Good; C - Satisfactory; D - Below Average; CR - Credit; P - Passing; S - Satisfactory.										
Core: 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;										
Core: 090 - Applied Communication and Literacies; Humanities; Leadership; Science Labs; Interdisciplinary; Technologies; Language Diversity & Writing										
Credit for MATH 1314/1414 are recommended prior to initiating program (MATH exam available).										
Year	Semester	Credit Hours	Campus	Course Number	Course Title	Minimum Grade	Core	Prerequisite	Additional Notes	
1	Fall	3	B/E/O	Choose 1	Communication	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	
1	Fall	3	B/E/O	Choose 1	American History		060		See General Education Core for more details. Options: HIST 1301 or HIST 2327	
1	Fall	3	B/E/O	CHEM 1311	General Chemistry I	C	030	MATH 1314, MATH 1414, MATH 1342, MATH 1343, MATH 2412, MATH 2413 with a grade of "C" or higher."		
1	Fall	1	B/E	CHEM 1111	General Chemistry I Lab	C	090		Credit/Registration in CHEM 1311	
1	Fall	3	B/E	BMED 1301	Introduction to Biomedical Sciences I	C			Departmental approval	
1	Fall	1	B/E	BMED 1102	Introduction to Biomedical Sciences I Lab	C			Departmental approval	
1	Fall		B/E/O	UNIV	1301 Learning Framework 1101 Academic and Career Success 1001/1300 Living and Working by Design				As required, based on a number of factors such as credit hours earned, TSI status, high school rank, major declaration, etc.	
1	Fall	14	<b>Semester Total Hours</b>							
1	Spring	3	B/E/O	Choose 1	Communication	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	
1	Spring	3	B/E/O	Choose 1	American History		060		See General Education Core for more details. Options: HIST 1302 or HIST 2328	
1	Spring	3	B/E	CHEM 1312	General Chemistry II	C	030		CHEM 1311.	
1	Spring	1	B/E	CHEM 1112	General Chemistry II Lab	C	090		Credit/registration in CHEM 1312.	
1	Spring	3	B/E	BMED 1302	Introduction to Biomedical Sciences II	C			Departmental approval	
1	Spring	1	B/E	BMED 1112	Introduction to Biomedical Sciences II Lab	C			Departmental approval	
1	Spring	14	<b>Semester Total Hours</b>							
Year	Semester	Credit Hours	Campus	Course Number	Course Title	Minimum Grade	Core	Prerequisite	Additional Notes	
2	Fall	3	B/E	CHEM 2323	Organic Chemistry I				CHEM 1312.	
2	Fall	1	B/E	CHEM 2123	Organic Chemistry I Lab				Credit/registration in CHEM 2323.	
2	Fall	3	B/E/O	MATH 1342	Elementary Statistical Methods	C			College Ready TSI status in Mathematics	
2	Fall	3	B/E/O	Choose 1	Creative Arts		050		PHIL 1330 Strongly Recommended	
2	Fall	3	B/E	BMED 2301	Integrated Body Systems I	C			Departmental approval	
2	Fall	1	B/E	BMED 2111	Integrated Body Systems Lab I	C			Departmental approval	
2	Fall	1	B/E	BMED 3121	Independent Research I				Departmental approval	
2	Fall	15	<b>Semester Total Hours</b>							
2	Spring	3	B/E	CHEM 2325	Organic Chemistry II				CHEM 2323.	
2	Spring	1	B/E	CHEM 2125	Organic Chemistry II Lab				Credit/Registration in CHEM 2325	
2	Spring	3	B/E/O	PSYC 2301	General Psychology		080			
2	Spring	3	B/E/O	Choose 1	Language, Philosophy & Culture		040		ENGL 2331 Strongly Recommended	
2	Spring	3	B/E	BMED 2302	Integrated Body Systems II	C			Departmental approval	
2	Spring	1	B/E	BMED 2112	Integrated Body Systems Lab II	C			Departmental approval	
2	Spring	1	B/E	BMED 3122	Independent Research II				BMED 3121.	
2	Spring	15	<b>Semester Total Hours</b>							

Year	Semester	Credit Hours	Campus	Course Number	Course Title	Minimum Grade	Core	Prerequisite	Additional Notes	
3	Fall	4	B/E/O	PHYS 1401	General Physics I			MATH 1414, MATH 1314, MATH 2412, or MATH 2413.		
3	Fall	2	B/E	BMED 4250	Advanced Cell Biology			Departmental approval		
3	Fall	2	B/E	BMED 4260	Advanced Molecular Biology			Departmental approval		
3	Fall	3	B/E	BMED 4310	Medical Biochemistry			Departmental approval		
3	Fall	2	B/E/O	Choose 1	BMED 3223 Experiential Learning in Biomedical Sciences I or BMED 3225 Recent Advances in Biomedical Sciences			BMED 3122		
3	Fall	13	<b>Semester Total Hours</b>							
3	Spring	4	B/E/O	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.	Prerequisite for MATH 2412: 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.	
3	Spring	3	B/E	BMED 4380	Medical Neuroscience and Neurochemistry			Departmental approval		
3	Spring	4	B/E	BMED 4440	Medical Microbiology			Departmental approval		
3	Spring	2	B/E	BMED 4220	Medical Bioinformatics, Genomics, and Systems Biology			Departmental approval		
3	Spring	2	B/E	BMED 4230	Human Genetics and Medical Genomics			Departmental approval		
3	Spring	2	B/E/O	Choose 1	BMED 3224 Experiential Learning in Biomedical Sciences II or BMED 3226 Topics in Biomedical Sciences			Departmental approval		
3	Spring	17	<b>Semester Total Hours</b>							
Year	Semester	Credit Hours	Campus	Course Number	Course Title	Minimum Grade	Core	Prerequisite	Additional Notes	
4	Fall	3	B/E/O	POLS 2305	U.S. Federal Government & Politics			070	See General Education Core for course options.	
4	Fall	3	B/E/O	Choose 1	Advanced Elective				Choose 3 advanced hours from: ANTH, PSYC, BIOL, CHEM, MATH, PHYS, HPRS, SOCI, NUTR, CSCI, ASLI, FORL, FREN, SPAN, or TRSP.	
4	Fall	2	B/E/O	BMED 4270	Introduction to Complementary and Alternative Medicine			Departmental approval		
4	Fall	2	B/E	BMED 4290	Medical Immunology			Departmental approval		
4	Fall	1	B/E	BMED 3103	Human Behavior			Departmental approval		
4	Fall	4	B/E/O	PHYS 1402	General Physics II			PHYS 1401.		
4	Fall	15	<b>Semester Total Hours</b>							
4	Spring	3	B/E/O	POLS 2306	Texas Government & Politics			070	See General Education Core for course options.	
4	Spring	3	B/E/O	Choose 1	Advanced Elective				Choose 3 advanced hours from: ANTH, PSYC, BIOL, CHEM, MATH, PHYS, HPRS, SOCI, NUTR, CSCI, ASLI, FORL, FREN, SPAN, or TRSP.	
4	Spring	3	B/E/O	Choose 1	Integrative and Experiential Learning			090	See General Education Core for course options.	
4	Spring	3	B/E	STAT 3301	Applied Statistics			MATH 2413 with a grade of 'C' or better.		
4	Spring	1	B/E/O	Choose 1	Integrative and Experiential Learning			090		
4	Spring	3	B/E	BMED 4395	Advanced Pathophysiology			Departmental approval		
4	Spring	1	B/E	BMED 3109	Medical Syndromes			Departmental approval		
4	Spring	17	<b>Semester Total Hours</b>							

**120**  
**(42)**  
**TOTAL HOURS**  
**Advanced minimum credit hours**