

Bachelor of Science (BS) Biomedical Science

2025-2026

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Н	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes
3	Choose 1	Communication	С	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	Choose 1	American History		060		See General Education Core for more details. Options: HIST 1301 or HIST 2327
3	CHEM 1311	General Chemistry I	С	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	С	090	Credit/Registration in CHEM 1311	
3	BMED 1301	Introduction to Biomedical Sciences I	С		Departmental approval	
1	BMED 1102	Introduction to Biomedical Sciences I Lab	С		Departmental approval	
	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 hou earned, TSI status, high school rank, major declaration, etc.
14 S	emester Total Hours					
3	Choose 1	Communication	С	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	Choose 1	American History		060		See General Education Core for more details. Options: HIST 1302 or HIST 2328
3	CHEM 1312	General Chemistry II	С	030	CHEM 1311.	
1	CHEM 1112	General Chemistry II Lab	С	090	Credit/registration in CHEM 1312.	
3	Choose 1	Language Elective				Medical Spanish or ASL recommended
3	BMED 1302	Introduction to Biomedical Sciences II	С		Departmental approval	
1	BMED 1112	Introduction to Biomedical Sciences II Lab	С		Departmental approval	
17 S	emester Total Hours					
	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes
3	CHEM 2323	Organic Chemistry I			CHEM 1312.	
1	CHEM 2123	Organic Chemistry I Lab			Credit/registration in CHEM 2323.	
3	MATH 1342	Elementary Statistical Methods	С		College Ready TSI status in Mathematics	
3	Choose 1	Creative Arts		050		PHIL 1330 Strongly Recommended
3	BMED 2301	Integrated Body Systems I	С		Departmental approval	
1	BMED 2111	Integrated Body Systems Lab I	С		Departmental approval	
1	BMED 3121	Independent Research I			Departmental approval	
15 S	emester Total Hours					
3	CHEM 2325	Organic Chemistry II			CHEM 2323.	
1	CHEM 2125	Organic Chemistry II Lab			Credit/Registration in CHEM 2325	
3	PSYC 2301	General Psychology		080		
3	Choose 1	Language, Philosophy & Culture		040		ENGL 2331 Strongly Recommended
3	BMED 2302	Integrated Body Systems II	С		Departmental approval	
1	BMED 2112	Integrated Body Systems Lab II	С		Departmental approval	
1	BMED 3122	Independent Research II			BMED 3121.	

The 2024-2026 list of core courses can be found in the 2024-2026 Undergraduate Catalog: www.utrgv.edu/catalog > See 'Bachelors Degree Program Regulations'

Symbols Key

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

Bolded Course #: Program Admission Requirement

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.

	Н	Course #	Course Title	Min. GEC Grade	Prerequisite	Additional Notes				
	4	PHYS 1401	General Physics I		MATH 1414, MATH 1314, MATH 2412, or MATH 2413.					
	2	BMED 4250	Advanced Cell Biology		Departmental approval					
	2	BMED 4260	Advanced Molecular Biology		Departmental approval					
FALL	3	BMED 4310	Medical Biochemistry		Departmental approval					
	2	Choose 1	BMED 3223 Experiential Learning in Biomedical Sciences I or BMED 3225 Recent Advances in Biomedical Sciences		BMED 3122					
AR	13 Semester Total Hours									
THIRD YE	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.	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	BMED 4380	Medical Neuroscience and Neurochemistry		Departmental approval					
	4	BMED 4440	Medical Microbiology		Departmental approval					
ı	2	BMED 4220	Medical Bioinformatics, Genomics, and Systems Biology		Departmental approval					
	2	BMED 4230	Human Genetics and Medical Genomics		Departmental approval					
	2	Choose 1	BMED 3224 Experiential Learning in Biomedical Sciences II or BMED 3226 Topics in Biomedical Sciences		Departmental approval					
	17	Semester Total Hours								
	17 ;	Semester Total Hours Course #	Course Title	Min. GEC Grade	Prerequisite	Additional Notes				
			Course Title U.S. Federal Government & Politics	Min. Grade GEC		Additional Notes See General Education Core for course options.				
	Н	Course #								
i	Н 3	Course # POLS 2305	U.S. Federal Government & Politics							
FALL	H 3 3	Course # POLS 2305 STAT 3301	U.S. Federal Government & Politics Applied Statistics		MATH 2413 with a grade of 'C' or better.					
FALL	H 3 3 2	Course # POLS 2305 STAT 3301 BMED 4270	U.S. Federal Government & Politics Applied Statistics Introduction to Complementary and Alternative Medicine		MATH 2413 with a grade of 'C' or better. Departmental approval					
IR FALL	H 3 3 2 2 2	Course # POLS 2305 STAT 3301 BMED 4270 BMED 4290	U.S. Federal Government & Politics Applied Statistics Introduction to Complementary and Alternative Medicine Medical Immunology		MATH 2413 with a grade of 'C' or better. Departmental approval Departmental approval					
TH YEAR FALL	H 3 3 2 2 1 4	Course # POLS 2305 STAT 3301 BMED 4270 BMED 4290 BMED 3103	U.S. Federal Government & Politics Applied Statistics Introduction to Complementary and Alternative Medicine Medical Immunology Human Behavior		MATH 2413 with a grade of 'C' or better. Departmental approval Departmental approval					
FOURTH YEAR FALL	H 3 3 2 2 1 4	Course # POLS 2305 STAT 3301 BMED 4270 BMED 4290 BMED 3103 PHYS 1402	U.S. Federal Government & Politics Applied Statistics Introduction to Complementary and Alternative Medicine Medical Immunology Human Behavior		MATH 2413 with a grade of 'C' or better. Departmental approval Departmental approval Departmental approval PHYS 1401.					
FOURTH YEAR FALL	H 3 3 2 2 1 4 15 5	POLS 2305 STAT 3301 BMED 4270 BMED 4290 BMED 3103 PHYS 1402 Semester Total Hours	U.S. Federal Government & Politics Applied Statistics Introduction to Complementary and Alternative Medicine Medical Immunology Human Behavior General Physics II	070	MATH 2413 with a grade of 'C' or better. Departmental approval Departmental approval PHYS 1401.	See General Education Core for course options.				
FOURTH YEAR FALL	H 3 3 2 2 1 4 15 3	POLS 2305 STAT 3301 BMED 4270 BMED 4290 BMED 3103 PHYS 1402 Semester Total Hours POLS 2306	U.S. Federal Government & Politics Applied Statistics Introduction to Complementary and Alternative Medicine Medical Immunology Human Behavior General Physics II Texas Government & Politics	070	MATH 2413 with a grade of 'C' or better. Departmental approval Departmental approval PHYS 1401.	See General Education Core for course options. See General Education Core for course options.				
FOURTH YEAR FALL	H 3 3 2 2 1 4 15 3 3 3	POLS 2305 STAT 3301 BMED 4270 BMED 4290 BMED 3103 PHYS 1402 Semester Total Hours POLS 2306 Choose 1	U.S. Federal Government & Politics Applied Statistics Introduction to Complementary and Alternative Medicine Medical Immunology Human Behavior General Physics II Texas Government & Politics Integrative and Experiential Learning	070 070 090	MATH 2413 with a grade of 'C' or better. Departmental approval Departmental approval PHYS 1401.	See General Education Core for course options. See General Education Core for course options.				
FOURTH YEAR FALL	H 3 3 2 2 1 4 15 3 3 1	POLS 2305 STAT 3301 BMED 4270 BMED 4290 BMED 3103 PHYS 1402 Semester Total Hours POLS 2306 Choose 1 Choose 1	U.S. Federal Government & Politics Applied Statistics Introduction to Complementary and Alternative Medicine Medical Immunology Human Behavior General Physics II Texas Government & Politics Integrative and Experiential Learning Integrative and Experiential Learning	070 070 090	MATH 2413 with a grade of 'C' or better. Departmental approval Departmental approval PHYS 1401.	See General Education Core for course options. See General Education Core for course options. See General Education Core for course options. See Degree Plan for course options. Choose 3 advanced hours from				

120 TOTAL HOURS

14 Semester Total Hours

(42) Advanced minimum credit hours

Revised: Tuesday, February 18th, 2025