

**Bachelor of Science (BS)**  
**Biology**

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										
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	4	B/E	BIOL 1406	General Biology	C	090		Satisfies Major-Specific Requirement. (One hour lab - Integrative & Experiential Learning in the General Education Core)	
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/O	MATH 1314,1414, MATH 2412 or MATH 2413	College Algebra, Precalculus or Calculus I	C	020	MATH 1314/1414 College Ready TSI status in Mathematics; MATH 2412: MATH 1314 or MATH 1414 with a grade of 'C' or better; or MATH 2413: MATH 2412 with a grade of 'C' or better	See General Education Core for more details.	
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 or ENGL 1305	
1	Spring	4	B/E	BIOL 1407	General Biology II	C		BIOL 1406 or BIOL 1487.	Satisfies Major-Specific Requirement.	
1	Spring	3	B/E/O	MATH 1342 or MATH 1343	Elementary Statistics or Introduction to Biostatistics			College Ready TSI status in Mathematics.	Satisfies Major-Specific Requirement.	
1	Spring	3	B/E/O	Choose 1	American History		060		See General Education Core for more details. Options: HIST 1301 or HIST/MASC 2327	
1	Spring	3	B/E	CHEM 1312	General Chemistry II		030	CHEM 1311.		
1	Spring	1	B/E	CHEM 1112	General Chemistry II Lab		090	Credit/registration in CHEM 1312.		
1	Spring	17	<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	BIOL 3325 OR BIOL 2401	Integrative Physiology OR Anatomy and Physiology I			BIOL 3325: Minimum Grade of "C" in BIOL 1406 & BIOL 1407	Satisfies Major-Specific Requirement. Take BIOL 2401 if planning on pursuing a professional program. Reach out to Office for Pre-Professional Development for more information.	
2	Fall	3	B/E/O	Choose 1	Integrative/Experiential Learning Option		090		See General Education Core for more details. If you are planning to apply for Veterinary school, take COMM 1315 or 1318 for this category. Reach out to Office for Pre-Professional Development for more information.	
2	Fall	3	B/E/O	Choose 1	Social and Behavioral Sciences		080		See General Education Core for more details. Reach out to Office for Pre-Professional Development for course recommendation if interested in applying to Medical School or Physical Therapy.	
2	Fall	3	B/E/O	Choose 1	American History		060		See General Education Core for more details. Options: HIST 1302 or HIST/MASC 2328	
2	Fall	3	B/E	CHEM 2323	Organic Chemistry I			CHEM 1312.	Satisfies Major-Specific Requirement.	
2	Fall	1	B/E	CHEM 2123	Organic Chemistry I Lab			CHEM 1112.	Satisfies Major-Specific Requirement.	
2	Fall	16	<b>Semester Total Hours</b>							
2	Spring	3	B/E/O	13XX-43XX	Free Elective or Advanced Free Elective if BIOL 2401 is taken.				Consider taking CHEM 2325 and CHEM 2125 if pursuing a professional program. Reach out to the Office for Pre-Professional Development for more information.	
2	Spring	3	B/E/O	POLS 2305	U.S. Federal Government and Politics		070		See General Education Core for more details.	
2	Spring	3	B/E	BIOL 3313	Genetics			Grade of "C" or better in the following: BIOL 1406 and BIOL 1407.	Satisfies Major-Specific Requirement.	
2	Spring	3	B/E/O	Choose 1	Creative Arts		050		See General Education Core for course options.	
2	Spring	3	B/E	BIOL 3301	Ecology & Evolution			Grade of 'C' or better in BIOL 1406 and BIOL 1407.	Satisfies Major-Specific Requirement.	
2	Spring	2	B/E	BIOL 3201	Techniques in Ecology and Evolutionary Biology Lab			Grade of "C" or better in the following: BIOL 1406 and BIOL 1407.	Satisfies Major-Specific Requirement.	
2	Spring	17	<b>Semester Total Hours</b>							

Year Semester	Credit Hours	Campus	Course Number	Course Title	Minimum Grade	Core	Prerequisite	Additional Notes
3	Fall	3	B/E	BIOL 3315	Cell & Molecular Biology		Grade of "C" or better in the following: BIOL 1406 and BIOL 1407.	Satisfies Major-Specific Requirement.
3	Fall	2	B/E	BIOL 3215	Cellular, Molecular, and Genetics Lab		Grade of "C" or better in the following: BIOL 1406 and BIOL 1407.	Satisfies Major-Specific Requirement.
3	Fall	3	B/E/O	POLS 2306	Texas Government and Politics		070	See General Education Core for more details.
3	Fall	3	B/E/O	13XX-43XX	Free Elective			If pursuing a professional program. Reach out to the Office for Pre-Professional Development for course recommendation.
3	Fall	3	B/E/O	Choose 1	Language, Philosophy & Culture		040	See General Education Core for more details.
3	Fall	<b>14 Semester Total Hours</b>						
3	Fall	3	B/E/O	13XX-43XX	Free Elective			If pursuing a professional program. Reach out to the Office for Pre-Professional Development for course recommendation.
3	Spring	3	B/E/O	13XX-43XX	Free Elective			If pursuing a professional program. Reach out to the Office for Pre-Professional Development for course recommendation.
3	Spring	2	B/E	BIOL 3230	Biology Data Analysis and Informatics		Grade of "C" or better in the following: BIOL 1406 and BIOL 1407.	Satisfies Major-Specific Requirement.
3	Spring	3	B/E/O	13XX-43XX	Free Elective			If pursuing a professional program. Reach out to the Office for Pre-Professional Development for course recommendation.
3	Spring	4	B/E/O	BIOL 14XX-44XX	Prescribed Elective			Satisfies Major-Specific Requirement. If pursuing a professional program. Reach out to the Office for Pre-Professional Development for course recommendation.
3	Spring	<b>15 Semester Total Hours</b>						
Year Semester	Credit Hours	Campus	Course Number	Course Title	Minimum Grade	Core	Prerequisite	Additional Notes
4	Fall	4	B/E/O	34XX-44XX	Free Advanced Elective			If pursuing a professional program. Reach out to the Office for Pre-Professional Development for course recommendation.
4	Fall	3	B/E/O	33XX-43XX	Free Advanced Elective			If pursuing a professional program. Reach out to the Office for Pre-Professional Development for course recommendation.
4	Fall	4	B/E/O	BIOL 34XX-44XX	Advanced Institutional Prescribed Elective			Satisfies Major-Specific Requirement.
4	Fall	3	B/E/O	13XX-43XX	Free Elective			If pursuing a professional program. Reach out to the Office for Pre-Professional Development for course recommendation.
4	Fall	<b>14 Semester Total Hours</b>						
4	Spring	3	B/E/O	33XX-43XX	Free Advanced Elective			If pursuing a professional program. Reach out to the Office for Pre-Professional Development for course recommendation.
4	Spring	3	B/E/O	33XX-43XX	Free Advanced Elective			If pursuing a professional program. Reach out to the Office for Pre-Professional Development for course recommendation.
4	Spring	4	B/E/O	BIOL 34XX-44XX	Advanced Institutional Prescribed Elective			Satisfies Major-Specific Requirement.
4	Spring	3	B/E/O	33XX-43XX	Free Advanced Elective			If pursuing a professional program. Reach out to the Office for Pre-Professional Development for course recommendation.
4	Spring	<b>13 Semester Total Hours</b>						

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