

Bachelor of Science (BS)
Applied Statistics and Data Science

The 2026-2027 list of core courses can be found in the 2026-2027 Undergraduate Catalog: 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										
This program is delivered in a hybrid format with courses offered through a combination of face-to-face and online instruction.										
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	Satisfactory scores on English portion of ACT test and TSI examination or ENGL 0301.	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	POLS 2305	U.S. Federal Government & Politics		070		See General Education Core for more details	
1	Fall	3	B/E/O	MATH 1314 or MATH 1414	College Algebra	C		College Ready TSI status in Mathematics.		
1	Fall	3	B/E/O	MATH 1342 or MATH 1343	Elementary Statistical Methods or Introduction to Biostatistics	C	020	College Ready TSI status in Mathematics.		
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	15		Semester Total Hours						
1	Spring	3	B/E/O	Choose 1	Communication	C	010	Satisfactory scores on English portion of ACT test and TSI examination or ENGL 0301.	See General Education Core for more details Options: ENGL 1302 or ENGL 1305	
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/O	POLS 2306	Texas Government & Politics		070		See General Education Core for more details	
1	Spring	3	B/E	CSCI 1380	Intro to Programming in Python		090	Concurrent enrollment or credit for MATH 1314 or higher level mathematics course.		
1	Spring	4	B/E/O	MATH 2412	Precalculus	C		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.		
1	Spring	16		Semester Total Hours						
Year	Semester	Credit Hours	Campus	Course Number	Course Title	Minimum Grade	Core	Prerequisite	Additional Notes	
2	Fall	4	B/E/O	ENVR 1401 or BIOL 1406	Introduction to Environmental Science I or General Biology I		030/ 090			
2	Fall	4	B/E/O	MATH 2413	Calculus I	C		MATH 2412 with a grade of 'C' or better; or passing the Precalculus Exemption Test administered by the Department of Mathematics.		
2	Fall	4	B/E	CSCI 1470	Computer Science I	C		Grade of "C" or better in any of the following: MATH 1314, MATH 1414 or placement in a higher level Math courses (MATH 2412, MATH 2413) and credit for or concurrent enrollment in CSCI 1101 or CMPE 1101 or EECE 1101.	Please reach out to Computer Science department to request an override due to CSCI 1101 not being in the degree plan. csci@utrgv.edu	
2	Fall	3	B/E/O	ECON 1301 or ECON 2302	Introduction to Economics or Principles of Microeconomics		080	ECON 2302: ECON 2301 with a grade of 'C' or better.		
2	Fall	15		Semester Total Hours						
2	Spring	4	B/E/O	MATH 2414	Calculus II	C		MATH 2413 (or MATH 2487) with a grade of 'C' or better.		
2	Spring	3	B/E	STAT 3301	Applied Statistics	C		MATH 2413 with a grade of 'C' or better.		
2	Spring	4	B/E	ENVR 1402 or BIOL 1407	Introduction to Environmental Science II or General Biology II		030/ 090		For BIOL 1407: BIOL 1406 or BIOL 1487.	
2	Spring	3	B/E/O	MATH 2318	Linear Algebra	C		MATH 2413 with a grade of 'C' or better.		
2	Spring	3	B/E	STAT 2336	Statistical Computing and Data Management	C		Grade of "C" in CSCI 1470 and [MATH 1342 or MATH 1343 or STAT 2334].		
2	Spring	17		Semester Total Hours						

Year	Semester	Credit Hours	Campus	Course Number	Course Title	Minimum Grade	Core Prerequisite	Additional Notes	
3	Fall	3	B/E/O	Choose 1	Creative Arts		050	See General Education Core for course options.	
3	Fall	3	B/E/O	X3XX 43XX	Free Elective			Recommended: Advanced STAT or CSCI	
3	Fall	3	B/E	CSCI 2380	Computer Science II	C		Grade of C or better in: CSCI 1470 or CSCI 1390 or [[CSCI 1370 or CMPE 1370] and [CSCI 1170 or CMPE 1170]].	
3	Fall	3	E/O	3XXX-4XXX	Advanced Statistics Elective	C		STAT 3336/ 3351/ 4332/ 4341/ 4399	
3	Fall	12	Semester Total Hours						
3	Spring	3	E/O	3XXX-4XXX	Advanced Statistics Elective	C		STAT 3336/ 3351/ 4332/ 4341/ 4399	
3	Spring	3	B/E	STAT 3337	Probability and Statistics	C		MATH 2414 with a grade of 'C' or better.	
3	Spring	3	E/O	3XXX-4XXX	Advanced Computer Science Elective	C		CSCI 3310/ 3329/ 3333/ 4333/ 4343	
3	Spring	3	B/E/O	Choose 1	Language, Philosophy & Culture		040	See General Education Core for course options.	
3	Spring	3	E/O	STAT 3335	Applied Regression Analysis	C		MATH 2318 and STAT 3301 both with grades of 'C' or better	
3	Spring	3	B/E/O	3XXX-4XXX	MATH 2415 or an Advanced Math Elective	C		MATH 3341/ 3343/3345/ 3349/ 3350/ 3361/3363/ 4364/ 3372/ 4373/ 3399/ 4355	
3	Spring	18	Semester Total Hours						
Year	Semester	Credit Hours	Campus	Course Number	Course Title	Minimum Grade	Core Prerequisite	Additional Notes	
4	Fall	3	E/O	3XXX-4XXX	Advanced Statistics Elective	C		STAT 3336/ 3351/ 4332/ 4341/ 4399	
4	Fall	3	E/O	3XXX-4XXX	Advanced Statistics Elective	C		STAT 3336/ 3351/ 4332/ 4341/ 4399	
4	Fall	3	B/E/O	3XXX-4XXX	Advanced Math Elective	C		MATH 3341/ 3343/3345/ 3349/ 3350/ 3361/3363/ 4364/ 3372/ 4373/ 3399/ 4355	
4	Fall	3	B/E	3XXX-4XXX	Advanced Computer Science Elective	C		CSCI 3310/ 3329/ 3333/ 4333/ 4343	
4	Fall	3	B/E/O	3XXX-4XXX	Advanced Math Elective	C		MATH 3341/ 3343/3345/ 3349/ 3350/ 3361/3363/ 4364/ 3372/ 4373/ 3399/ 4355	
4	Fall	15	Semester Total Hours						
4	Spring	3	B/E	STAT 4390	Statistical Project	C		STAT 2336, STAT 3335, and 9 advanced hours of STAT, all with grades of 'C' or better.	
4	Spring	3	B/E	STAT 3338	Mathematical Statistics	C		STAT 3337 with a grade of 'C' or better.	
4	Spring	3	B/E	3XXX-4XXX	Advanced Computer Science Elective	C		CSCI 3310/ 3329/ 3333/ 4333/ 4343	
4	Spring	1	B/E/O	Choose 1	Integrative/Experiential Learning Option		090	See General Education Core for course options.	
4	Spring	2	B/E/O	X3XX 43XX	Free Elective			Recommended: Advanced STAT or CSCI	
4	Spring	12	Semester Total Hours						

120 TOTAL HOURS
(42) Advanced minimum credit hours