

Bachelor of Science (BS)

Mathematics

Economics

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'

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	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/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 1314/1414 with a grade of "C" or better or passing Exemption Test administered by Department of Mathematics		
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	CSCI 1380	Introduction to Programming in Python		090	Concurrent enrollment or credit for MATH 1314 or higher level mathematics course.			
1	Fall	3	E/O	ECON 1301	Introduction to Economics	C	080		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	16	Semester Total Hours								
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/O	MATH 2414	Calculus II	C		MATH 2413 (or MATH 2487) with a grade of 'C' or better.			
1	Spring	3	B/E/O	MATH 2318	Linear Algebra	C		MATH 2413 (or MATH 2487) with a grade of 'C' or better.			
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	ECON 2301	Principles of Macroeconomics	C			Satisfies Major Specific Requirement		
1	Spring	16	Semester Total Hours								
Year	Semester	Credit Hours	Campus	Course Number	Course Title	Minimum Grade	Core	Prerequisite	Additional Notes		
2	Fall	3	B/E/O	MATH 3341	Differential Equations	C		MATH 2414 (or MATH 2488) with a grade of 'C' or better.			
2	Fall	4	B/E/O	MATH 2415	Calculus III	C		MATH 2414 (or MATH 2488) with a grade of 'C' or better.			
2	Fall	3	B/E/O	POLS 2305	U.S. Federal Government & Politics		070		See General Education Core for more details		
2	Fall	4	B/E/O	PHYS 2425	Physics for Scientists and Engineers I		030/090	MATH 2413			
2	Fall	3	B/E/O	ECON 2302	Principles of Microeconomics			ECON 2301 with a grade of "C" or better	Satisfies Major Specific Requirement		
2	Fall	17	Semester Total Hours								
2	Spring	3	B/E	MATH 3343	Introduction to Mathematical Software	C		MATH 2414 (or MATH 2488) and MATH 2318 with a grade of 'C' or better.			
2	Spring	3	E	MATH 3350	Introduction to Mathematical Proof	C		MATH 2318 with a grade of 'C' or better.			
2	Spring	3	B/E/O	POLS 2306	Texas Government & Politics		070		See General Education Core for more details		
2	Spring	1	B/E/O	Choose 1	Integrative/Experiential Learning Option		090		See General Education Core for course options.		
2	Spring	4	B/E/O	PHYS 2426	Physics for Scientists and Engineers II		030/090	PHYS 2425 and MATH 2414.			
2	Spring	14	Semester Total Hours								

Year	Semester	Credit Hours	Campus	Course Number	Course Title	Minimum Grade	Core	Prerequisite	Additional Notes	
3	Fall	3	B/E	MATH 3363	Modern Algebra I	C		MATH 2318 and MATH 3350, each with a grade of 'C' or better.		
3	Fall	3	E	MATH 3352	Modern Geometry I	C		MATH 2318 with a grade of 'C' or better.		
3	Fall	3	E/O	ECON 3351	Macroeconomic Theory			ECON 2301 and ECON 2302. All students pursuing a Bachelor of Business Administration, Bachelor of Arts in Economics, or Bachelor of Science in Materials Management and Logistics from VCoBE, must apply for and be admitted to VCoBE before they are allowed to enroll in the Advanced Business Core and Major coursework for their degree.		
3	Fall	3	B/E/O	Choose 1	Language, Philosophy & Culture		040		See General Education Core for course options.	
3	Fall	3	B/E/O	X3XX 43XX	Free Elective					
3	Fall	15	Semester Total Hours							
3	Spring	3	B/E	MATH 3372	Real Analysis I	C		MATH 2414 (or MATH 2488) and MATH 3350, each with a grade of 'C' or better.		
3	Spring	3	B/E	STAT 3337	Probability and Statistics	C		MATH 2414 (or MATH 2488) with a grade of 'C' or better.		
3	Spring	3	E/O	ECON 3352	Microeconomic Theory	C		ECON 2301 and ECON 2302.		
3	Spring	3	B/E/O	X3XX 43XX	Free Elective					
3	Spring	12	Semester Total Hours							
Year	Semester	Credit Hours	Campus	Course Number	Course Title	Minimum Grade	Core	Prerequisite	Additional Notes	
4	Fall	3	B/E	MATH 4390	Mathematics Project	C		Pre- or co-requisite in MATH 2415, STAT 3337, MATH 3341, MATH 3352, MATH 3363, MATH 3372.		
4	Fall	3	B/E/O	QUMT 2341	Business Statistics I			MATH 1314 or MATH 1414 or MATH 1324 or MATH 1325.		
4	Fall	3	E/O	ECON 3341	Econometrics	C		ECON 2301, ECON 2302, and (QUMT 2341 or MATH 1342). All students pursuing a Bachelor of Business Administration, Bachelor of Arts in Economics, or Bachelor of Science in Materials Management and Logistics from VCoBE, must apply for and be admitted to VCoBE before they are allowed to enroll in the Advanced Business Core and Major coursework for their degree.		
4	Fall	3	B/E/O	X3XX 43XX	Free Elective					
4	Fall	3	B/E/O	X3XX 43XX	Free Elective					
4	Fall	15	Semester Total Hours							
4	Spring	3	O	ECON 4361	Studies in Economics	C		ECON 2301 and ECON 2302. All students pursuing a Bachelor of Business Administration, Bachelor of Arts in Economics, or Bachelor of Science in Materials Management and Logistics from VCoBE, must apply for and be admitted to VCoBE before they are allowed to enroll in the Advanced Business Core and Major coursework for their degree.	See Degree Plan for course options.	
4	Spring	3	O	ECON 3342	Business and Economics Forecasting	C		ECON 3341. All students pursuing a Bachelor of Business Administration, Bachelor of Arts in Economics, or Bachelor of Science in Materials Management and Logistics from VCoBE, must apply for and be admitted to VCoBE before they are allowed to enroll in the Advanced Business Core and Major coursework for their degree.	See Degree Plan for course options.	
4	Spring	3	B/E/O	Choose 1	Creative Arts		050		See General Education Core for course options.	
4	Spring	3	B/E/O	X3XX 43XX	Free Elective					
4	Spring	3	B/E/O	MATH X3XX	Major Advanced Elective	C				
4	Spring	15	Semester Total Hours							
		120	TOTAL HOURS							
		(42)	Advanced minimum credit hours							