## The University of Texas Rio Grande Valley

## **Bachelor of Science (BS)**

Mathematics

Concentration: Economics

I         Court         Owner/Low         Priority         Prior         Priority         Priorit		_		J Concentration:		UIII		
A Choose 1       Communication (Core)       C       ID       estimation or ENGL IBBLE for ENGL 1BDLE for		Н	Course #	Course Title	Min. GE Grade	EC F	Prerequisite	Additional Notes
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A         Choose 1         Markach Rachy (Core)         Gold         Concurrent enrollement or credit for MATH 1314 or higher level mathematical         Option:: HST 1301 or HST 2327           A         CSCI 1380         Computer Science I (Core)         C         000         Concurrent enrollement or credit for MATH 1314 or higher level mathematical         See General Education Core for more details.           H         H         Education Core for more details.         See General Education Core for more details.         See General Education Core for more details.           H         H         Gommatication (Core)         C         000         For all 00 conserses. Striftscharp scores on English portion ACT test and 75 too formers. Note 1302 or FNGL 1302, a grade d''C' or better in FNGL 1302 or FNGL 1302 or FNGL 1302, a grade d''C' or better in FNGL 1302 or FNGL 1302 or FNGL 1302, a grade d''C' or better.         See General Education Core for more details.           1         A         Choose 1         American History (Core)         C         C         M         MATH 2413 with a grade of 'C' or better.         See General Education Core for more details.           1         A         Choose 1         American History (Core)         C         C         M         MATH 2413 with a grade of 'C' or better.         See General Education Core for more details.           1         A         Choose 1         Marinean History (Core)         C         M <td< td=""><td>1</td><td>4</td><td>MATH 2413</td><td>Calculus I (Core)</td><td>C 02</td><td>/0</td><td></td><td>better or passing Exemption Test administered by Department of</td></td<>	1	4	MATH 2413	Calculus I (Core)	C 02	/0		better or passing Exemption Test administered by Department of
A         CACH Same         Computer Scherer (Cyber)         Construction         Construction <td>TL</td> <td>3</td> <td>Choose 1</td> <td>American History (Core)</td> <td>06</td> <td>50</td> <td></td> <td></td>	TL	3	Choose 1	American History (Core)	06	50		
Image: Note of the service o	ΕÞ	3	CSCI 1380	Computer Science I (Core)	09	90	-	
UNV         101 Academic and Career Success         Is         Is         Is         As required, based on credit hours earned, 153 status, 4gh school rank, major declaration           10         Fermiore, and Career Success         Is         I	R	3	ECON 1301	Introduction to Economics (Core)	C 08	80		See General Education Core for more details.
3       Choose 1       Communication (Core)       C       010       For all 010 courses: Sufficiently scores one English portion of ACT test and TSI 301.       See General Education Core for more details 0ptions: ENGL 1302, a grade of "C" or better in ENGL 301. For ENGL 1302, a grade of "C" or better in ENGL 301. For ENGL 1302, a grade of "C" or better in ENGL 301. For ENGL 1302, a grade of "C" or better in ENGL 301. For ENGL 1302, a grade of "C" or better in ENGL 301. For ENGL 1302 or ENGL 1305       See General Education Core for more details 0ptions: ENGL 1302 or ENGL 1305         3       MATH 2318       Linear Algebra       C       MATH 2413 with a grade of "C" or better.       See General Education Core for more details. Options: HIST 1302 or HIST 2328         3       Choose 1       American History (Core)       060       MATH 2414 with a grade of "C" or better.         16       Seestifies Major Specific Requirement       EGON 2001       Principles of Macro Seestifies Major Specific Requirement         16       Conset       MATH 2414       With 2414 with a grade of "C" or better.       Math 2414 with a grade of "C" or better.         1       MATH 2343       Differential Equations       C       MATH 2414 with a grade of "C" or better.       See General Education Core for more details         3       POLS 2305       U.S. Federal Government & Politics (Core)       070       See General Education Core for more details         4       PHYS 2425       Physics for Scientists and Engineers I (Core)	FIRST YE		UNIV	1101 Academic and Career Success				
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Note       Name       Name       Compare		3	Choose 1	Communication (Core)	C 01	10	examination or ENGL 0301. For ENGL 1302, a grade of "C" or better in ENGL	
3       Choose 1       American History (Core)       0       060       Options: HIST 1302 or HIST 2328         3       Choose 1       American History (Core)       0       0       See General Education Core for more details. Options: HIST 1302 or HIST 2328         10       ECON 201       Principles of Macroeconomics       C       See General Education Core for more details.         10       ECON 201       Principles of Macroeconomics       C       Proveduine       Matter 244         10       MATH 2415       Calculus III       C       MATH 2414 with a grade of 'C' or better.       Matter 244         3       POIS 2305       U.S. Federal Government & Politics (Core)       0       070       See General Education Core for more details         4       PHYS 2425       Physics for Scientists and Engineers I (Core)       0       030/090       MATH 2413 and concurrent enrollment in MATH 2414.       See General Education Core for more details         7       See Total Hours       ECON 2301 with a grade of 'C' or better       Satisfies Major Specific Requirement       ECON 200         8       POIS 2305       U.S. Federal Government & Politics (Core)       0       030/090       MATH 2418 with a grade of 'C' or better.       Satisfies Major Specific Requirement         3       ECON 2302       Principles of Microeconomics       C       <	!	4	MATH 2414	Calculus II	С		MATH 2413 with a grade of 'C' or better.	
3       Choose 1       American History (Core)       Colo       Options: HIST 302 or HIST 3328         3       Choose 1       Marrican History (Core)       C       Options: HIST 302 or HIST 3328         1       3       Choose 1       Marrican History (Core)       C       Options: HIST 302 or HIST 3328         1       Course 1       Cour	SPRINC	3	MATH 2318	Linear Algebra	С	1	MATH 2413 with a grade of 'C' or better.	
IN       Semester Total Hours       Additional Notes         V       Corres       Corres       Corres       Corres       Corres       Additional Notes         V       Corres       Corres       Corres       Corres       Corres       Additional Notes         V       AMATH 2415       Calculus III       C       MATH 2414 with a grade of 'C' or better.       Additional Notes         V       AMATH 3341       Differential Equations       C       MATH 2414 with a grade of 'C' or better.       See General Education Core for more details         V       PHYS 2425       Physics for Scientists and Engineers I (Core)       O       O30/090       MATH 2413 and concurrent enrollment in MATH 2414.       See General Education Core for more details         V       Semester Total Hours       ECON 2302       Principles of Microeconomics       C       MATH 2414 and MATH 2318 with a grade of 'C' or better.       Satisfies Major Specific Requirement         V       Semester Total Hours       Konth 33350       Introduction to Mathematical Software       C       MATH 2414 and MATH 2318 with a grade of 'C' or better.       See General Education Core for more details         3       MATH 3343       Introduction to Mathematical Proof       C       MATH 2414 and MATH 2318 with a grade of 'C' or better.       See General Education Core for more details         3		3	Choose 1	American History (Core)	06	50		
V         Course Tuile		3	ECON 2301	Principles of Macroeconomics	С			Satisfies Major Specific Requirement
V         Cooler		16 Sei	mester Total Hours					
NATH 3341         Offerential Equations         C         MATH 2414 with a grade of 'C' or better.           V         3         POLS 2305         U.S. Federal Government & Politics (Core)         0         030/09         MATH 2414 with a grade of 'C' or better.         See General Education Core for more details           V         4         PHYS 2425         Physics for Scientists and Engineers I (Core)         030/09         MATH 2413 and concurrent enrollment in MATH 2414.         See General Education Core for more details           V         V         V         V         V         Set CON 2302         Principles of Microeconomics         0         030/09         MATH 2414 and MATH 2318 with a grade of 'C' or better.         Satisfies Major Specific Requirement           V         V         V         V         V         MATH 3343         Introduction to Mathematical Software         C         MATH 2318 with a grade of 'C' or better.         MATH 2318 with a grade of 'C' or better.           V         3         MATH 3350         Introduction to Mathematical Proof         C         MATH 2318 with a grade of 'C' or better.         See General Education Core for more details           3         POLS 2306         Texas Government & Politics (Core)         C         MATH 2318 with a grade of 'C' or better.         See General Education Core for course options.           4         PHYS 2426	•	н	Course #			EC F	Prerequisite	Additional Notes
No.       No.       No.       No.       No.       No.       No.         No.       POLS 2305       U.S. Federal Government & Politics (Core)       G       OTO       No.       See General Education Core for more details         No.       PULS 2425       Physics for Scientists and Engineers I (Core)       G       OTO       NATH 2413 and concurrent enrollment in MATH 2414.       See General Education Core for more details         No.       PULS 2302       Principles of Microeconomics       C       MATH 2414 and MATH 2318 with a grade of "C" or better       Satisfies Major Specific Requirement         NATH 3343       Introduction to Mathematical Software       C       MATH 2318 with a grade of 'C' or better.       See General Education Core for more details         NATH 3350       Introduction to Mathematical Proof       C       MATH 2318 with a grade of 'C' or better.       See General Education Core for more details         No.       POLS 2306       Texas Government & Politics (Core)       C       MATH 2318 with a grade of 'C' or better.       See General Education Core for more details         No.       POLS 2306       Texas Government & Politics (Core)       G       OTO       POLY         No.       Policy 2306       Texas Government & Politics (Core)       G       OTO       POLY       See General Education Core for course options. <t< td=""><td>!</td><td>4</td><td>MATH 2415</td><td>Calculus III</td><td>С</td><td>I</td><td>MATH 2414 with a grade of 'C' or better.</td><td></td></t<>	!	4	MATH 2415	Calculus III	С	I	MATH 2414 with a grade of 'C' or better.	
Verticity	!	3	MATH 3341	Differential Equations	С	1	MATH 2414 with a grade of 'C' or better.	
No.       N	-ALL	3	POLS 2305	U.S. Federal Government & Politics (Core)	07	70		See General Education Core for more details
Image: Normal field of the second o		4	PHYS 2425	Physics for Scientists and Engineers I (Core)	030/	/090	MATH 2413 and concurrent enrollment in MATH 2414.	
V       V	YEAR	3	ECON 2302	Principles of Microeconomics		1	ECON 2301 with a grade of "C" or better	Satisfies Major Specific Requirement
Matrix	<b>DND</b>	17 Sei	mester Total Hours					
Mark	SEG	3	MATH 3343	Introduction to Mathematical Software	С	1	MATH 2414 and MATH 2318 with a grade of 'C' or better.	
Image: Problem in the state of the state	!	3	MATH 3350	Introduction to Mathematical Proof	С	1	MATH 2318 with a grade of 'C' or better.	
4     PHYS 2426     Physics for Scientists and Engineers II (Core)     030/090     PHYS 2425.	RING	3	POLS 2306	Texas Government & Politics (Core)	07	70		See General Education Core for more details
	РS	1	Choose 1	Integrative/Experiential Learning Option (Core)	09	<del>9</del> 0		See General Education Core for course options.
		4	PHYS 2426	Physics for Scientists and Engineers II (Core)	030/	/090	PHYS 2425.	
14 Semester I otal Hours		14 Sei	mester Total Hours					

CORE: The 2022-2023 list of core courses can be found in the 2022-2023 Undergraduate Catalog: www.utrgv.edu/smartcatalog > Bachelors Degree Regulations and Graduation Policies > 'Core Curriculum'

Symbols Key

Critical ('!'): sequence sensitive course. Minimum Grade: A - Excellent; B - Good; C - Satisfactory; D - Below Average; CR - Credit; P - Passing; S -Satisfactory. Scient

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 Lass; 090 - Interdisciplinary; 090 - Technologies; 090 - Language Diversity & Writing.

,	н	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes
	3	MATH 3363	Modern Algebra I	с		MATH 2318 and MATH 3350, each with a grade of 'C' or better.	
	3	MATH 3352	Modern Geometry I	С		MATH 2318 with a grade of 'C' or better.	
FALL	3	ECON 3351	Macroeconomic Theory			ECON 2301 and ECON 2302.	
~	3	Choose 1	Language, Philosophy & Culture (Core)		040		See General Education Core for course options.
RD YEA	3	X3XX 43XX	Free Elective				
Ŧ	15 Se	emester Total Hour	S				
	3	MATH 3372	Real Analysis I	С		MATH 2414 and MATH 3350, each with a grade of 'C' or better.	
g	3	STAT 3337	Probability and Statistics	С		MATH 2414 with a grade of 'C' or better.	
SPRIM	3	ECON 3352	Microeconomic Theory	С		ECON 2301 and ECON 2302.	
	3	X3XX 43XX	Free Elective				
	12 Semester Total Hours						
		Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes
	3	MATH 4390	Mathematics Project	с		Pre- or co-requisite in MATH 2415, STAT 3337, MATH 3341, MATH 3352, MATH 3363, MATH 3372.	
	3	QUMT 2341	Business Statistics I			MATH 1314 or MATH 1414 or MATH 1324 or MATH 1325; and computer proficiency or INFS 1001.	
FALL	3	ECON 3341	Econometrics	С		ECON 2301, ECON 2302, and QUMT 2341.	
	3	X3XX 43XX	Free Elective				
H YEAK	3	X3XX 43XX	Free Elective				
OURT	15 Se	emester Total Hour	S				
	3	ECON 4361	Studies in Economics	С		ECON 2301 and ECON 2302.	See Degree Plan for course options.
	3	ECON 3342	Business and Economics Forecasting	С		ECON 3341.	See Degree Plan for course options.
PRING	3	Choose 1	Creative Arts (Core)		050		See General Education Core for course options.
0	3	X3XX 43XX	Free Elective				
	3	MATH X3XX	Major Advanced Elective	С			
	15 Se	emester Total Hour	S				

Major Graduation Requirements:

Major requirements must be completed with a minimum grade of "C" and a minimum GPA of 2.5.

120 TOTAL HOURS

(42) Advanced minimum credit hours

Approved: Friday, December 9, 2022 Revised: Sunday, November 13, 2022