The University of Texas Rio Grande Valley

Bachelor of Science (BS)

Mathematics

2018-2019

Concentration: Statistics									
	!	ł	H Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes	
			3 Choose 1	Communication (Core)	с	010	For all 010 courses: Satisfactory scores on ENGL portion of ACT test or TSI reading/writing exams or ENGL 0301. For ENGL 1302/1388, a grade of "C" or better in ENGL 1301/1387.	See General Education Core for more details Options: ENGL 1301 or ENGL 1387 (H)	
	!	4	4 MATH 2413	Calculus I	с	020	MATH 2412 with a grade of 'C' or better; or passing the Precalculus Exemption Test administered by the Department of Mathematics.	Prerequiste for MATH 2412: MATH 1314/1414 with a grade of "C" or better or passing Exemption Test administered by Department of Mathematics	
EAL		3	3 Choose 1	American History (Core)		060		See General Education Core for more details. Options: HIST 1301 or HIST 1387 or HIST/MASC 2327	
		3	3 Choose 1	Integrative/Experiential Learning Option (Core))	090		Recommended: CSCI 1380	
EAR		3	3 Choose 1	Creative Arts (Core)		050		See General Education Core for course options.	
lst γ			UNIV 1301	Learning Framework				Only if required, based on ACT/SAT and high school rank.	
H		16 Semester Total Hours							
			3 Choose 1	Communication (Core)	с	010	For all 010 courses: Satisfactory scores on ENGL portion of ACT test or TSI reading/writing exams or ENGL 0301. For ENGL 1302/1388, a grade of "C" or better in ENGL 1301/1387.	See General Education Core for more details Options: ENGL 1302 or ENGL 1388 (H) or ENGL 1305	
e.	!	4	4 MATH 2414	Calculus II	с		MATH 2413 (or MATH 2487) with a grade of 'C' or better.		
PLIN	1	3	3 MATH 2318	Linear Algebra	с		MATH 2413 (or MATH 2487) with a grade of 'C' or better.		
5	5	3	3 Choose 1	American History (Core)		060		See General Education Core for more details. Options: HIST 1302 or HIST 1388 or HIST/MASC 2328	
		1	3 Choose 1	Social and Behavioral Sciences (Core)		080		Recommended: ECON 1301 or ECON 2301	
	16 Semester Total Hours								
	1	ł	H Course #	Course Title	Grade	GEC	Prerequisite	Additional Notes	
	!	3	3 MATH 1342	Elementary Statistical Methods	С		College Ready TSI status in Mathematics.		
	!	4	4 MATH 2415	Calculus III	С		MATH 2414 (or MATH 2488) with a grade of 'C' or better.		
		3	3 Choose 1	Government/Political Science (Core)		070		See General Education Core for more details Options: POLS 2305 or POLS 2385 (H)	
¥		4	4 Choose 1	Life and Physical Sciences (Core)		030/090		Recommended: PHYS 2425	
D YE		1	3 Choose 1	Language, Philosophy & Culture (Core)		040		See General Education Core for course options.	
NO		1	7 Semester Tota	l Hours					
SEG	!	3	3 MATH 3350	Introduction to Mathematical Proof	С		MATH 2318 with a grade of 'C' or better.		
	!	3	3 MATH 3341	Differential Equations	С		MATH 2414 (or MATH 2488) with a grade of 'C' or better.		
PRINC		3	3 Choose 1	Government/Political Science (Core)		070		See General Education Core for more details Options: POLS 2306 or POLS 2386 (H)	
		:	1 Choose 1	Integrative/Experiential Learning Option (Core))	090		See General Education Core for course options.	
		4	4 Choose 1	Life and Physical Sciences (Core)		030/090		Recommended: PHYS 2426	
		1	4 Semester Tota	I Hours					

CORE: The 2018-2019 list of core courses can be found at: www.utrgv.edu > Academics > Undergraduate > General Education Core

www.utrgv.edu/core

Symbols Key

Critical ('!'): sequence sensitive course.

Satisfactory.

General Education Core (GEC) Sections: 010 - Communication; 020 - Mathematics; Language Proficiency Requirement: Student is required to demonstrate Minimum Grade: A - Excellent; B - Good; C - Satisfactory; D - Below Average; CR - Credit; P - Passing; S - 030 - Life and Physical Sciences; 040 - Language, Philosophy & Culture; 050 - Creative language proficiency in a language other than English at the Arts; 060 - American History; 070 - Government/Political Science; 080 - Social and undergraduate level equivalent to a minimum of six credits. Behavioral Sciences; 090 - Applied Communication and Literacies; 090 - Humanities; 090 - Leadership; 090 - Science Labs; 090 - Interdisciplinary ; 090 - Technologies; 090 -Language Diversity & Writing.

		!	H Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes
		-	3 STAT 2331	Essentials of Statistics	с		MATH 1314, MATH 1414, MATH 1324, MATH 1342, or MATH 1343 with a grade of 'C' or better.	
		3	3 MATH 3352	Modern Geometry I	С		MATH 2318 with a grade of 'C' or better.	
	ALL	3	3 MATH 3363	Modern Algebra I	с		MATH 2318 and MATH 3350, each with a grade of 'C' or better.	
	9 1	3	3 MATH 3343	Introduction to Mathematical Software	с		MATH 2414 (or MATH 2488) and MATH 2318 with a grade of 'C' or better.	
EAR		1	3 X3XX X3XX	Free Elective				
ΥE		15 Semester Total Hours						
THIRD		(1)	3 MATH 3372	Real Analysis I	с		MATH 2414 (or MATH 2488) and MATH 3350, each with a grade of 'C' or better.	
		З	3 STAT 3336	Sampling	с		STAT 2331 with a grade of 'C' or better.	
	SING	3	3 STAT 3335	Applied Regression Analysis	с		MATH 2318 and STAT 2331 both with grade of 'C' or better.	
	SPI	3	3 X3XX X3XX	Free Advanced Elective				
		3	з хзхх хзхх	Free Advanced Elective				
		1	5 Semester Tota	I Hours				
		!	H Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes
		3	3 MATH 4390	Mathematics Project	с		MATH 2318, MATH 3350, and 9 additional advanced hours of MATH, all with grades of 'C' or better.	
		3	3 STAT 3337	Probability and Statistics	С		MATH 2414 (or MATH 2488) with a grade of 'C' or better.	
	ALL	3	3 MATH X3XX	Major Advanced Elective	С			Choose 3 advanced hours of MATH.
AR	ш. —	3	3 33XX-43XX	Free Advanced Elective				
TH YE		3	з хзхх хзхх	Free Elective				
Ľ.		1	5 Semester Tota	l Hours				
5		3	3 STAT 3338	Mathematical Statistics	с		STAT 3337 with a grade of 'C' or better.	
	DN	3	3 MATH 3349	Numerical Methods	с		MATH 2414 (or MATH 2488) and MATH 3343, each with a grade of 'C' or better.	
	SPR	3	3 33XX-43XX	Free Advanced Elective				
		3	3 X3XX X3XX	Free Elective				
		1	2 Semester Tota	I Hours				

Graduation Requirements:

1. The student must complete all these major course requirements and all MATH and MATE courses with grades of 'C' or better and have with a GPA for the major of 2.5 or better.

2. In addition to the graduation requirements listed in the UTRGV 2018-2019 Undergraduate Catalog, demonstration of proficiency in a language other than English is required at the undergraduate level equivalent to a minimum of six credit hours. Proficiency can be demonstrated by a college credit exam, a placement test approved through the UTRGV department of Writing and Language Studies, and/or to six credit hours of college-level language coursework.

120 TOTAL HOURS (51) TOTAL ADVANCED HOURS Approved: Tuesday, April 3, 2018 Revised: Thursday, July 5, 2018