

	H	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes
FIRST YEAR	3	Choose 1	Communication (Core)	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 <b>Options: ENGL 1301</b>
	4	MATH 2413	Calculus I (Core)	C	020	MATH 2412 with a grade of 'C' or better; or passing the Precalculus Exemption Test administered by the Department of Mathematics.	<b>Prerequisite for MATH 2412:</b> MATH 1314/1414 with a grade of "C" or better or passing Exemption Test administered by Department of Mathematics
	3	Choose 1	American History (Core)		060		See General Education Core for more details. <b>Options: HIST 1301 or HIST 2327</b>
	3	CSCI 1380	Computer Science I (Core)		090	Concurrent enrollment or credit for MATH 1314 or higher level mathematics course.	
	3	Choose 1	Creative Arts (Core)		050		See General Education Core for course options.
			UNIV	1301 Learning Framework 1101 Academic and Career Success 1001 Living and Working by Design			
<b>16 Semester Total Hours</b>							
SECOND YEAR	3	Choose 1	Communication (Core)	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 <b>Options: ENGL 1302 or ENGL 1305</b>
	4	MATH 2414	Calculus II	C		MATH 2413 with a grade of 'C' or better.	
	3	MATH 2318	Linear Algebra	C		MATH 2413 with a grade of 'C' or better.	
	3	Choose 1	American History (Core)		060		See General Education Core for more details. <b>Options: HIST 1302 or HIST 2328</b>
	3	ECON 1301 or ECON 2301	Introduction to Economics or Principles of Macroeconomics (Core)		080		
<b>16 Semester Total Hours</b>							
THIRD YEAR	3	MATH 1342	Elementary Statistical Methods	C		College Ready TSI status in Mathematics.	
	4	MATH 2415	Calculus III	C		MATH 2414 with a grade of 'C' or better.	
	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)		030/090	MATH 2413 and concurrent enrollment in MATH 2414.	
	3	Choose 1	Language, Philosophy & Culture (Core)		040		See General Education Core for course options.
	<b>17 Semester Total Hours</b>						
FOURTH YEAR	3	MATH 3350	Introduction to Mathematical Proof	C		MATH 2318 with a grade of 'C' or better.	
	3	MATH 3341	Differential Equations	C		MATH 2414 with a grade of 'C' or better.	
	3	POLS 2306	Texas Government & Politics (Core)		070		See General Education Core for more details
	1	Choose 1	Integrative/Experiential Learning Option (Core)		090		See General Education Core for course options.
	4	PHYS 2426	Physics for Scientists and Engineers II (Core)		030/090	PHYS 2425.	
<b>14 Semester Total Hours</b>							

**CORE:** The 2022-2023 list of core courses can be found in the 2022-2023 Undergraduate Catalog: [www.utrgv.edu/smartcatalog](http://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.

**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 Labs; 090 - Interdisciplinary ; 090 - Technologies; 090 - Language Diversity & Writing.

	H	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes
THIRD YEAR	FALL	3	STAT 3301	Applied Statistics	C		MATH 2413 with a grade of 'C' or better.
		3	MATH 3352	Modern Geometry I	C		MATH 2318 with a grade of 'C' or better.
		3	MATH 3363	Modern Algebra I	C		MATH 2318 and MATH 3350, each with a grade of 'C' or better.
		3	MATH 3343	Introduction to Mathematical Software	C		MATH 2414 and MATH 2318 with a grade of 'C' or better.
		3	X3XX 43XX	Free Elective			
<b>15 Semester Total Hours</b>							
THIRD YEAR	SPRING	3	MATH 3372	Real Analysis I	C		MATH 2414 and MATH 3350, each with a grade of 'C' or better.
		3	STAT 3336	Sampling	C		STAT 3301 with a grade of 'C' or better.
		3	STAT 3335	Applied Regression Analysis	C		MATH 2318 and STAT 3301 both with grade of 'C' or better.
		3	STAT 3337	Probability and Statistics	C		MATH 2414 with a grade of 'C' or better.
		3	X3XX-43XX	Free Elective			
<b>15 Semester Total Hours</b>							
FOURTH YEAR	FALL	3	MATH 4390	Mathematics Project	C		Pre- or co-requisite in MATH 2415, STAT 3337, MATH 3341, MATH 3352, MATH 3363, MATH 3372.
		3	X3XX-43XX	Free Elective			
		3	MATH X3XX	Advanced Math Elective	C		Choose 3 advanced hours of MATH.
		3	X3XX-43XX	Free Elective			
		3	X3XX-43XX	Free Elective			
<b>15 Semester Total Hours</b>							
FOURTH YEAR	SPRING	3	STAT 3338	Mathematical Statistics	C		STAT 3337 with a grade of 'C' or better.
		3	MATH 3349	Numerical Methods	C		MATH 2414 and MATH 3343, each with a grade of 'C' or better.
		3	X3XX-43XX	Free Elective			
		3	X3XX-43XX	Free Elective			
<b>12 Semester Total Hours</b>							

**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