

	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/MASC 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				As required, based on credit hours earned, TSI status, High school rank, major declaration
<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/MASC 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	4	MATH 2415	Calculus III	C		MATH 2414 with a grade of 'C' or better.		
	3	MATH 3341	Differential Equations	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>							
	3	MATH 3352	Modern Geometry I	C		MATH 2318 with a grade of 'C' or better.		
	3	MATH 3350	Introduction to Mathematical Proof	C		MATH 2318 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 2021-2022 list of core courses can be found in the 2021-2022 Undergraduate Catalog: [www.utrgv.edu](http://www.utrgv.edu) > See '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	MATH 3363	Modern Algebra I	C		MATH 2318 and MATH 3350, each with a grade of 'C' or better.		
		3	33XX-43XX	Science and Engineering Advanced Elective				College of Sciences or College Engineering & Computer Science; excluding MATH, STAT or MATE	
		3	33XX-43XX	Science and Engineering Advanced Elective				College of Sciences or College Engineering & Computer Science; excluding MATH, STAT or MATE	
		3	X3XX X3XX	Science and Engineering Elective				College of Sciences or College Engineering & Computer Science; excluding MATH, STAT or MATE	
		3	X3XX X3XX	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 3337	Probability and Statistics	C		MATH 2414 with a grade of 'C' or better.		
		3	33XX-43XX	Science and Engineering Advanced Elective				College of Sciences or College Engineering & Computer Science; excluding MATH, STAT or MATE	
		3	33XX-43XX	Science and Engineering Advanced Elective				College of Sciences or College Engineering & Computer Science; excluding MATH, STAT or MATE	
		3	X3XX X3XX	Free Elective					
		<b>15 Semester Total Hours</b>							
		H	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes	
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	33XX-43XX	Science and Engineering Advanced Elective				College of Sciences or College Engineering & Computer Science; excluding MATH, STAT or MATE	
		3	33XX-43XX	Science and Engineering Advanced Elective				College of Sciences or College Engineering & Computer Science; excluding MATH, STAT or MATE	
		3	X3XX X3XX	Free Advanced Elective					
		3	X3XX X3XX	Free Elective					
		<b>15 Semester Total Hours</b>							
FOURTH YEAR	SPRING	3	33XX-43XX	Science and Engineering Advanced Elective				College of Sciences or College Engineering & Computer Science; excluding MATH, STAT or MATE	
		3	X3XX X3XX	Science and Engineering Elective				College of Sciences or College Engineering & Computer Science; excluding MATH, STAT or MATE	
		3	33XX-43XX	Free Advanced Elective					
		3	XXXX X3XX	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: Saturday, October 23, 2021

Revised: Sunday, October 3, 2021