

		!	H	Course #	Course Title	Min. Grad	GEC	Prerequisite	Additional Notes	
FIRST YEAR	FALL		3	Choose 1	Communication (Core)	C	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	MATH 2413	Calculus I (Core)	C	020		See General Education Core for more details.	
			1	CIVE 1101	Introduction to Civil Engineering	C			CIVE 2220 <sup>†</sup>	
			2	CIVE 2220	Civil Engineering Measurements	C			CIVE 1101 <sup>†</sup>	
			3	CHEM 1309	Chemistry for Engineers	C		MATH 1314, MATH 1414, MATH 2412, or MATH 2487 with a grade of 'C' or higher	Or CHEM 1309 Or CHEM 1311 General Chemistry I	
		1	CHEM 1109	Chemistry for Engineers Lab	C	090	Credit/registration in CHEM 1309.	Or CHEM 1109 Or CHEM 1111 General Chemistry I Lab		
		3	Choose 1	American History (Core)		060		Options: HIST 1301 or HIST 1387 or HIST/MASC 2327		
			UNIV 1301	Learning Framework				Only if required, based on ACT/SAT and high school rank.		
	<b>17 Semester Total Hours</b>									
	SPRING		3	Choose 1	Communication (Core)	C	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.	
		4	MATH 2414	Calculus II	C		MATH 2413 (or MATH 2487) with a grade of 'C' or better.			
		4	PHYS 2425	Physics for Scientists and Engineers I (Core)	C	030/090	MATH 2413 (or MATH 2487) and concurrent enrollment in MATH 2414 (or MATH 2488).	1 hour of lab for Core 090. See General Education Core for more details.		
		3	MANE 2332	Engineering Statistics	C		MATH 2413 (or MATH 2487).			
		4	CIVE 2440	Civil Engineering Materials	C		CIVE 1101, CHEM 1309, 1109 or CHEM 1311, 1111			
<b>18 Semester Total Hours</b>										
		!	H	Course #	Course Title	Min. Grad	GEC	Prerequisite	Additional Notes	
SECOND YEAR	FALL		4	MATH 2415	Calculus III	C		MATH 2414		
			3	MECE 2301	Statics	C		A grade of 'C' or better in CIVI 1101 and PHYS 2425, and credit/registration in MATH 2414 (or MATH 2488).		
			3	MECE 2350	Numerical Methods for Engineers	C		Credit/registration in MATH 2414 (or MATH 2488).		
			4	PHYS 2426	Physics for Scientists and Engineers II (Core)	C	030/090	Minimum of grade 'C' in PHYS 2425	1 hour of lab for Core 090. See General Education Core for more details.	
			3	POLS 2305	U.S. & Texas Government and Politics I		070		See General Education Core for more details Options: POLS 2305 or POLS 2385 (H)	
	<b>17 Semester Total Hours</b>									
	SPRING		3	Choose 1	American History (Core)		060		See General Education Core for more details. Options: HIST 1302 or HIST 1388 or HIST/MASC 2328.	
			3	MECE 2302	Dynamics	C		MECE 2301, MATH 2414		
			3	MECE 3321	Mechanics of Solids	C		MECE 2301, MATH 2414		
			3	MATH 3341	Differential Equations	C		MATH 2414		
		3	CIVE 3315	Fluid Mechanics and Hydraulics	C		MECE 2301, MATH 2415 or MECE 3449			
	1	CIVE 3115	Fluid Mechanics and Hydraulics Lab	C		CIVE 3315 <sup>†</sup>				
<b>16 Semester Total Hours</b>										

		!	H	Course #	Course Title	Min. Grad	GEC	Prerequisite	Additional Notes		
THIRD YEAR	FALL		3	MANE 3337	Engineering Economics	C		MANE 2332*			
			3	CIVE 3324	Structural Analysis	C		MECE 3321, CIVE 2440 or 2240 or 2140			
			3	CIVE 3331	Environmental Engineering	C		CHEM 1307, 1107 or 1311, 1111 or 1309,1109 ; CIVE 3315, 3115 or MECE 3315, 3115			
			4	CIVE 3475	Geotechnical Engineering and Applications	C		Minimum grade of 'C' in MECE 3321.			
	<b>13 Semester Total Hours</b>										
	SPRING			3	CIVE 3341	Structural Steel Design	C		Minimum grade of 'C' in CIVE 3324		
				3	CIVE 3345	Transportation Engineering	C		Minimum grade of 'C' in CIVE 2220 and MECE 2302		
				3	CIVE 4335	Water Resources Engineering	C		CIVE 3315, 3115, MATH 3341 and MECE 2350		
				3	CIVE 4346	Reinforced Concrete Design	C		CIVE 3324		
				3	Choose 1	Social and Behavioral Sciences (Core)		080		See General Education Core for course options.	
<b>15 Semester Total Hours</b>											
FOURTH YEAR	FALL		3	CIVE 4349	Construction Planning & Management	C		MANE 3337 and PHYS 2426			
			3	CIVE 43XX	Technical Elective I	C			CIVE 4333, 4347, 4348, 4350, 4351, 4352		
			3	CIVE 4347	Foundation Design	C		CIVE 3475			
			3	CIVE 4391	CE Senior Fundamentals	C		A minimum GPA of 2.4, Senior Standing, and maximum 15 hrs enrolled in the semester			
			3	PHIL 2326	Ethics, Technology, and Society (Core)		040		See General Education Core for more details.		
			3	POLS 2306	U.S. & Texas Government and Politics II		070		See General Education Core for more details Options: POLS 2306 or POLS 2386 (H)		
		<b>18 Semester Total Hours</b>									
		SPRING			3	CIVE 43XX	Technical Elective II	C			CIVE 4333, 4347, 4348, 4350, 4351, 4352
				3	Choose 1	Creative Arts (Core)		050		See General Education Core for course options.	
				3	CIVE 4392	CE Senior Project	C		A minimum GPA of 2.4, Senior Standing, and maximum 15 hrs enrolled in the semester		
				3	Choose 1	Basic Science Elective				BIOL 1406; ENVR 1401/1402/3304/4301; GEOL 1401/1403/1404/3408	
				3	Choose 1	Integrative & Experiential Learning		090		Choose one ENGL 23XX course from Language, Philosophy & Culture area.	
	<b>15 Semester Total Hours</b>										

Progression requirements: Students must receive a grade of 'C' or better in all courses that are prerequisites for civil engineering courses. Graduation requirements: 1. Students must receive a grade of 'C' or better in all civil engineering courses. 2. In addition to the graduation requirements listed in the UTRGV 2015-2017 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 up to six credit hours of college-level language coursework.

**129 TOTAL HOURS**

**(53) TOTAL ADVANCED HOURS**

Approved: 03/29/2018

Revised: 03/29/2018

**CORE: The 2018-2019 list of core courses can be found at: [www.utrgv.edu](http://www.utrgv.edu) > Academics > Undergraduate > General Education Core**

**[www.utrgv.edu/core](http://www.utrgv.edu/core)**

**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.

**Language Proficiency Requirement:** Student is required to demonstrate language proficiency in a language other than English at the undergraduate level equivalent to a minimum of six credits.

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