

		I	H	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes		
<b>FIRST YEAR</b>	<b>FALL</b>		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	C	020	MATH 2412 with a grade of 'C' or better; or passing the Precalculus Exemption Test administered by the Department of Mathematics.			
			1	CSCI 1101	Introduction to Computer Science						
			3	CSCI 1370	Engineering Computer Science I	C		Grade of 'C' or better in MATH 1314 or placement in a higher level Math course. Co-requisite: CSCI 1170 (or CSCI 1178).			
			1	CSCI 1170	Engineering Computer Science I Laboratory			Corequisite: CSCI 1370 (or CSCI 1378).			
					UNIV 1301	Learning Framework			Only if required, based on ACT/SAT and high school rank.		
<b>12 Semester Total Hours</b>											
<b>FIRST YEAR</b>	<b>SPRING</b>		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.	(H) designates Honors sections of courses.		
			4	MATH 2414	Calculus II			MATH 2413 (or MATH 2487) with a grade of 'C' or better.			
			4	Choose 1	Life and Physical Sciences (Core)		030		MUST be BIOL, CHEM, PHYS		
			3	Choose 1	American History (Core)		060		HIST 1301 OR HIST 1387 OR HIST/MASC 2327		
			3	CSCI 2380	Computer Science II			CSCI 1370 (or CSCI 1378) or CSCI 1380 (or CSCI 1387) or consent of instructor.	OR CSCI 2388		
		<b>17 Semester Total Hours</b>									
		I	H	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes		
<b>SECOND YEAR</b>	<b>FALL</b>		3	COMM 1315	Public Speaking		090				
			4	Choose 1	Life and Physical Sciences		030		MUST be BIOL, CHEM, PHYS to pair with previously taken 030 course		
			3	CSCI 2344	Programming in Unix/ Linux Environment			CSCI 1370 (or CSCI 1378) or CSCI 1380 (or CSCI 1387) or consent of instructor.			
			3	CSCI 2333	Computer Organization and Assembly Language			CSCI 1370 (or CSCI 1378) or CSCI 1380 (or CSCI 1387) or consent of instructor.			
		<b>13 Semester Total Hours</b>									
		<b>SECOND YEAR</b>	<b>SPRING</b>		3	CSCI 3334	Systems Programming			CSCI 2380; and CSCI 2333, ELEE 3435.	
	3			CSCI 3310	Mathematical Foundations of Computer Science			MATH 2413 with grade of 'C' or better; and CSCI 1370 (or CSCI 1378).			
	4			Choose 1	Basic Science (Support Course)				Must be PHYS, CHEM, or BIOL from degree plan Section C (support courses) Basic Sciences		
	3			CSCI 3326 or 3327 or	Object Oriented Programming, Java or Visual Basic or Object Oriented Programming in C#				CSCI 3326 OR CSCI 3327 OR CSCI 3328		
	3			ELEE 2330	Digital Systems Engineering I			Corequisite: ELEE 2130			
	1			ELEE 2130	Digital Systems Engineering I Lab			Corequisite: ELEE 2330			
<b>17 Semester Total Hours</b>											

**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 - Computer Application; 090 - Interdisciplinary ;090 - Science Labs; 090 - Wellness.

**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.

		I	H	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes	
THIRD YEAR	FALL		3	PHIL 2326	Ethics, Technology and Society		040			
			3	CSCI 3333	Algorithms and Data Structures			CSCI 2380 (or CSCI 2388); and credit/registration for MATH 2346 or CSCI 3310 or MATH 2305.		
			3	Choose 1	Advanced Elective					
			3	ENGL 3342	Technical Communication			6 hours of English.		
			3	POLS 2305 or POLS 2385 (H)	U.S. Federal Government & Politics or (H)		070		(H) designates Honors sections of courses.	
<b>15 Semester Total Hours</b>										
THIRD YEAR	SPRING		3	CSCI 3340	Software Engineering I			CSCI 2380 (or CSCI 2388), and 3 advanced hours in CSCI courses.		
			3	Choose 1	CS Electives - Databases, Networking, Operating Systems and Computer Architecture			CSCI 3333 for Databases; CSCI 2380 for Networking; CSCI 2380 for Architecture; CSCI 3334 for OS	Choose from: CSCI 4333 Database Design and Implementation or CSCI 4334 Operating Systems or CSCI 4335 Computer Architecture or CSCI 4345 Computer Networks	
			3	MATH 2318	Linear Algebra			MATH 2413 (or MATH 2487) with a grade of 'C' or better.		
			3	POLS 2306 or POLS 2386 (H)	Texas Government & Politics or (H)		070		(H) designates Honors sections of courses.	
			3	CSCI 3336	Organization of Programming Languages			CSCI 2380 (or CSCI 2388).	Programming experience in two high level languages	
<b>15 Semester Total Hours</b>										
		I	H	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes	
FOURTH YEAR	FALL		3	Choose 1	CS Electives - Databases, Networking, Operating Systems and Computer Architecture			CSCI 3333 for Databases; CSCI 2380 for Networking; CSCI 2380 for Architecture; CSCI 3334 for OS	Choose from: CSCI 4333 Database Design and Implementation or CSCI 4334 Operating Systems or CSCI 4335 Computer Architecture or CSCI 4345 Computer Networks	
			3	CSCI 4325	Automata, Formal Languages, and Computability			CSCI 3333.		
			3	CSCI X3XX	CSCI Advanced Technical Elective				See degree plan for options.	
			2	Choose 1	Elective - Any Level					
		3	Choose 1	Support Courses - Probability				STAT 4337 OR ELEE 3340 OR STAT 3331		
		3	Choose 1	Creative Arts		050		See General Education Core for course options.		
	<b>17 Semester Total Hours</b>									
	FOURTH YEAR	SPRING		3	CSCI X3XX	CSCI Advanced Technical Elective				See degree plan for options.
			3	Choose 1	Advanced Elective					
			3	Choose 1	American History (Core)				HIST 1302 OR HIST 1388 OR HIST/MASC 2328	
			3	Choose 1	Social and Behavioral Sciences (Core)		080		See General Education Core for course options.	
	3	Choose 1	Elective - Any Level							
	3	CSCI 4390	Senior Project			CSCI 3340.				
<b>18 Semester Total Hours</b>										

#### Graduation Requirements

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.

**124 TOTAL HOURS**  
**(48) TOTAL ADVANCED HOURS**

Approved:  
Revised: Wednesday, June 21, 2017

**CORE: The 2017-2018 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)**