

2019-2020 Civil Engineering Degree Plan

Student:		Date Advised:		Department Chair: Jungseok Ho		(956) 665-3038 Jungseok.Ho@utrgv.edu					
Semester	Hrs	GE	Term	Grd	T	S	v	Dept	Number	Course Title	Prerequisites/Substitutions/Notes
FRESHMAN YEAR											
FALL	1							CIVE	1101	Introduction to Civil Engineering	
1	3							CHEM	1309	Chemistry for Engineers	Engineering Majors only
Sem Hrs:	1	1						CHEM	1109	Chemistry for Engineers Lab	CHEM 1309 [†]
	4	3						MATH	2413	Calculus I	MATH 2412 or test w/HS Calc (ACT 25, SAT 570. CLM-A 100)
11	2							CIVE	2220	Civil Engineering Measurements	
SPRING	4							MATH	2414	Calculus II	MATH 2413
2	4	4						PHYS	2425	Physics Science & Eng I	MATH 2413*
Sem Hrs:	3							MANE	2332	Engineering Statistics	MATH 2413*
15	4							CIVE	2440	Civil Engineering Materials	CIVE 1101, CHEM 1309, 1109
SOPHOMORE YEAR											
FALL	3							MECE	2301	Statics	MATH 2414 [†] ; PHYS 2425, CIVE 1101 or 1221
3	3							MECE	2350	Numerical Methods for Engineers	MATH 2414
Sem Hrs:	4					1		MATH	2415	Calculus III	MATH 2414
14	4	4						PHYS	2426	Physics Science & Eng II	PHYS 2425*
SPRING	3							MECE	2302	Dynamics	MECE 2301, MATH 2414
4	3							CIVE	3321	Stress Analysis	MECE 2301, MATH 2414
Sem Hrs:	3							CIVE	3315	Fluid Mechanics and Hydraulics	MECE 2301, MATH 2415 or MECE 3449
	1							CIVE	3115	Fluid Mech. and Hydr. Lab	CIVE 3315 [†]
13	3					2		MATH	3341	Differential Equations	MATH 2414
JUNIOR YEAR											
FALL	3							MANE	3337	Engineering Economics	MANE 2332*
5	3							CIVE	3324	Structural Analysis	MECE 3321, CIVE 2440 or 2240 or 2140
Sem Hrs:	3							CIVE	3331	Environmental Engineering	CHEM 1309, 1109
13	4							CIVE	3475	Geotechnical Eng & Applications	MECE 3321
SPRING	3							CIVE	3341	Structural Steel Design	CIVE 3324
6	3							CIVE	3345	Transportation Engineering	CIVE 2220, MECE 2302
	3							CIVE	4335	Water Resources Engineering	CIVE 3315, 3115 or MECE 3315, 3115, MATH 3341, MECE 2350
12	3							CIVE	4346	Reinforced Concrete Design	CIVE 3324
SENIOR YEAR											
FALL	3							CIVE	4349	Construction Planning & Management	CIVE 3252 or MANE 3337, PHYS 2426
7	3							CIVE	X3XX	Technical Elective I	
Sem Hrs:	3							CIVE	4347	Foundation Design	CIVE 3475
12	3							CIVE	4391	CE Senior Fundamentals	Advisor's consent
SPRING	3							x3xx		Basic Science Elective	See Next Page
8	3							CIVE	X3XX	Technical Elective II	
Sem Hrs:	3							CIVE	4392	CE Senior Project	CIVE 4391
9											
Technical Electives											
	3							CIVE	4333	Water and Wastewater Treatment	CIVE 3331
	3							CIVE	4315	Applied Hydrology	CIVE 4335
	3							CIVE	4351	Structural System Design	CIVE 3324
	3							CIVE	4350	Open Channel Flow	CIVE 4335
	3							CIVE	4348	Highway Engineering	CIVE 3345, CIVE 3475
	3							CIVE	4352	Earthwork Engineering and Design	CIVE 3475
	3							CIVE	4359	Construction Scheduling	CIVE 1101 or 1221, MANE 3337
	3							CIVE	4300	Special Topics in CIVE	Advisor's Consent
	3							CIVE	3300	UG Full-time internship/Co-Op	Advisor's Consent
	1							CIVE	3100	UG Research & Part-time Intern.	Advisor's Consent
UTRGV Requirements											
Core Curriculum (Link @ end of the page)										• Required core courses in bold , electives in bold italic .	
	3	3						HIST	1301	American Heritage I	Or Equal. See General Edu. Core 060
	3	3						HIST	1302	American Heritage II	Or Equal. See General Edu. Core 060
	3	3						POLS	2305	US & Texas Gov.	General Edu. Core 070
	3	3						POLS	2306	US & Texas Gov.	General Edu. Core 070
	3	3						PHIL	2326»	Ethics, Technology, & Society	»Students need to register for a section specifically for Engineering majors.
	3	3						ENGL	1301	Composition I	General Edu. Core 010
	3	3						ENGL	1302	Composition II	General Edu. Core 010
	3	3						ENGL	23XX	Language, Philosophy & Culture	General Edu. Core 040
Total Hrs:	3	3						x3xx		Creative Arts	General Edu. Core 050
30	3	3						x3xx		Social and Behavior Sciences	General Edu. Core 080
Retention and Foreign Language											
								UNIV	1301	Learning Framework	
Total Hrs:								X3XX		Foreign Language	Students can take WebCAPE Replacement Exams instead of taking classes.
9 (Not counted toward Degree Plan)											
Total Hrs: ##	42										
NOTE: This Degree plan is for Freshman and transfer students entering in the 2019-2020 academic year.											
Updated 08/17/2019											

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Updated 08/17/2019

Core Curr: https://www.utrgv.edu/_files/documents/admissions/undergraduate/degree-plans/2018/utrgv-2017-2019-core-curriculum-updated-april-26-2018.pdf

Substitutions for MATH Sequence [§] :											
						1		MECE	3449	Mechanical Eng. Analysis I [§]	
						2		MECE	3450	Mechanical Eng. Analysis I [§]	

								or	
					2	MATH 2415	(STC) Linear Algebra ^s		
						MATH 2420	(STC) Differential Equations ^s		
									NOTE: Confirm course pre-requisites using ASSIST or current UTRGV Undergraduate Catalog.
						Calculus Prereq's: by exam or coursework (coursework does not apply to degree credits)			
Accuplacer	17/400			MATH	1314	Intermediate Algebra			* Must pass pre-requisite with a minimum grade of "C"
	20/480			MATH	1414	College Algebra			† Pre-requisite may be take concurrently
	25/570			MATH	2412	Pre Calculus/Trig			‡ Co-requisite courses

* Recommended