UTA CIVIL ENGINEERING CURRICULUM Applies to students entering the UTA CE program from the fall 2018 through the summer 2019

		FIRST YEAR						
CE CHEM	1105 1 1465 4		CE HIST	1252				
ENGL	1301 [°]		MATH	2425 ^c				
ENGR	1250 [°]		PHYS	2425 ^c				
ENGR MATH	1101 or UNIV 1131 1 1426 ^c		POLS	2311 <u>3</u>				
IVIATI	1428 ⁻		FULS	2311 <u>3</u> 16				
SECOND YEAR								
CE	2153 1		CE	2221				
CE	2311		CE	2313				
CE	2331 3		COMS	2302 ^C				
HIST	1312 [°]		GEOL	3340				
MATH PHYS	2326 ^{C,2}		IE MATH	2308 ^c				
PHIS	1444 ^C		IVIATI	3319 <u>3</u>				
	THIRD YEAR							
CE	3210		CE	3302				
ČĒ	3261 + CE 3161		ČĒ	3311				
CE	3301		CE	3334 + CE 3131 4				
CE	3305 3		CE	3342 + CE 3142 4				
CE	3341		POLS	2312 <u>3</u>				
CE	3343 + CE 3143 <u>4</u>			1/				
	18			17				
	18	FOURTH YEAR	ł					
CE	4347	FOURTH YEAR	CE	4383 3				
CE	18 4347 3 4352 3	FOURTH YEAR	CE CE Tec	4383 3 hnical Elective ¹ 3				
CE CE CE Tec	4347 3 4352 3 hnical Elective ¹ 3	FOURTH YEAR	CE CE Tec CE Tec	4383 3 hnical Elective ¹ 3 hnical Elective ¹ 3				
CE CE CE Tec CE Tec	4347 3 4352 3 hnical Elective ¹ 3 hnical Elective ¹ 3	FOURTH YEAR	CE CE Tec CE Tec CE Tec	4383 3 hnical Elective ¹ 3 hnical Elective ¹ 3 hnical Elective ¹ 3 hnical Elective ¹ 3				
CE CE CE Tec CE Tec	4347 3 4352 3 hnical Elective ¹ 3	FOURTH YEAR	CE CE Tec CE Tec CE Tec	4383 3 hnical Elective ¹ 3 hnical Elective ¹ 3				

Six (6) hours of Foreign Language are required for students who have not had 2 units of high school foreign language.

REQUIRED COURSE TITLES

COMMUNICAT	FION	OTHER ENGINEERING		
ENGL 1301 ^C	Rhetoric and Composition I	ENG	R 1250	Engineering Problem Solving
COMS 2302	Professional and Technical Communication	ENG	R 1101	Entrance to Engineering for Transfer Students
	for Science and Engineering	UNIV	1131	Student Success
U.S. HISTORY			ENGINE	ERING
HIST 1311 ^C	History of the United States to 1865	CE	1105	Introduction to Civil Engineering
HIST 1312 ^C	History of the United States, 1865 to Present	CE	1252	Computer Tools - AutoCAD
GOVERNMENT/POLITICAL SCIENCE			2153	Computer Tools – Civil 3D
POLS 2311 ^C	Government of the United States	CE	2221	Dynamics
POLS 2312 ^C	State and Local Government	CE	2311	Statics
<u>MATHEMATIC</u>	<u>S</u>	CE	2313	Mechanics of Materials I
MATH 1426 ^C	Calculus I	CE	2331	Engineering Measurement and Computer Modeling
MATH 2425 ^C	Calculus II	CE	3210	Civil Engineering Communications
MATH 2326 ^{C,2}	Calculus III	CE	3261	Properties and Behavior of Civil Engineering Materials
MATH 3319	Differential Equations and Linear Algebra	CE	3161	Civil Engineering Materials Lab
LIFE AND PHYSICAL SCIENCES		CE	3301	Stochastic Models for Civil Engineering
CHEM 1465	Chemistry for Engineers	CE	3302	Transportation Engineering
GEOL 3340	Geology for Engineers	CE	3305	Basic Fluid Mechanics
PHYS 1443 ^C	General Technical Physics I	CE	3311	Construction Engineering
PHYS 1444 ^C	General Technical Physics II	CE	3334	Principles of Environmental Engineering
SOCIAL AND BEHAVIORAL SCIENCES		CE	3131	Environmental Engineering
IE 2308	Economics for Engineers	CE	3341	Structural Analysis
		CE	3342	Water Resources Engineering
		CE	3142	Applied Fluid Mechanics Lab
^C University core curriculum requirement			3343	Soil Mechanics
¹ Approved list on back side			3143	Properties and Behavior of Soils
² Foundational Component Area core curriculum requirement			4352 F	Professional Practice
		CE	4383	Senior Project

APPROVED ELECTIVES FOR CIVIL ENGINEERING MAJORS CIVIL ENGINEERING TECHNICAL ELECTIVES

Beginning with the 2014/2015 catalog, fifteen hours (five courses) of senior technical electives are required in the CE program. Of the fifteen required hours of senior technical electives, twelve (12) hours (four (4) courses) must be selected from four (4) different areas of the following six (6): Construction (C), Environmental (E), Geotechnical (G), Structures (S), Transportation (T), or Water Resources (W). The remaining three (3) hours (one (1) course) may be chosen from the remaining CE technical electives including CE 4393 - Industrial Internship, or CE 4394 - Research Internship. CE 4300, when offered, must be approved by the faculty to be considered as a technical elective in a specified area. CE 4300 may by offered without approval to be used as a technical elective by the CE faculty. The areas of the technical electives and which are design courses (i.e. **4332**) are shown in the table below.

CONSTRUCTION	4303, 4304, 4305, 4306, 4307, <u>4332.</u> 4335
ENVIRONMENTAL	4350, 4351, 4353, 4354, <u>4355</u>
GEOTECHNICAL	4320, 4321, 4322, 4323, 4336(or T), 4337(or T)
STRUCTURES	4324, 4325, <u>4348</u> , 4356, 4360, 4361, 4363, 4365, 4366, 4368, 4369
TRANSPORTATION	4310, 4311, <u>4312</u> , <u>4313</u> , 4314
WATER RESOURCES	4326, <u>4328</u> , 4330, 4358

CE 4347, CE 4352, and CE 4383 are not technical electives.

CE 4393 and CE 4394 are free electives.

CE 4300 - Advanced Topics in Civil Engineering, when offered, may be used as a technical elective in the related area.

CREATIVE ARTS ELECTIVE

Any course which satisfies the University Core Curriculum requirement for Creative Arts is accepted. A list is available at http://www.uta.edu/provost/core-curriculum/core-syllabi.php.

LANGUAGE, PHILOSOPHY & CULTURE ELECTIVE

Any course which satisfies the University Core Curriculum requirement for Language, Philosophy & Culture is accepted. A list is available at http://www.uta.edu/provost/core-curriculum/core-syllabi.php.

DISCLAIMER

Information provided here and on the Civil Engineering Advising and Course Selection Guide is to assist students in planning the sequence of courses required for an undergraduate degree in Civil Engineering. However, the authoritative requirements for the degree are contained in the 2016/2017 University of Texas at Arlington Catalog. Students should refer to the current catalog to confirm prerequisite requirements and consult with the Department if additional clarification is required.

CIVIL ENGINEERING PREREQUISITES

Students may not attempt a CE course until they have earned a grade of C or better in the prerequisite course(s) and have satisfied all other requisite requirements.

CIVIL ENGINEERING COURSE SEQUENCE

The sequence of courses shown on the front side of this form will usually satisfy the required course prerequisites and allow a student to graduate in four years. However, it may be necessary to modify this course sequence for a number of reasons. A CE Undergraduate Advisor will help select the sequence of courses suitable for each student.

The CE Department intends to offer CE 1000, CE 2000, CE 3000, CE 4347, CE 4352, and CE 4383 each fall and spring semester. Most Civil Engineering Technical Elective Courses will not be offered every semester. A multi-year schedule of when technical electives will be offered is available in the Department office.

Certain CE courses will also be offered in the summer 11-week semester. The courses selected will depend on anticipated need, faculty availability, and budget. At this time, students should not plan their long term schedules assuming that particular courses will be offered in summer.