UTA CIVIL ENGINEERING CURRICULUM
Applies to students entering the UTA CE program from the fall 2017 through the summer 2018

FIRST YEAR

CE	1105	1		CE	1252	2
CHEM	1465	4		HIST	1311[C]	3
ENGL	1301[C]	3		MATH	2425[C]	4
ENGR	1300[C]	3		PHYS	1443[C]	4
MATH	1426[C]	4		POLS	2311	3
		15				16

SECOND YEAR

CE	2153	1		CE	2221	2
CE	2311	3		CE	2313	3
CE	2331	3		COMS	2302[C]	3
HIST	1312[C]	3		GEOL	3340	3
MATH	2326[C,2]	3		IE	2308[C]	3
PHYS	1444[C]	4		MATH	3319	3
		17				17

THIRD YEAR

CE	3210	2		CE	3302	3
CE	3261 + CE 3161	3		CE	3311	3
CE	3301	3		CE	3334 + CE 3131	4
CE	3305	3		CE	3342 + CE 3142	4
CE	3341	3		POLS	2312	3
CE	3343 + CE 3143	4				17
		18				

FOURTH YEAR

CE	4347	3		CE	4383	3
CE	4352	3		CE Technical Elective[1]		3
CE Technical Elective[1]		3		CE Technical Elective[1]		3
CE Technical Elective[1]		3		CE Technical Elective[1]		3
Language, Philosophy, and Culture Elective[C,1]		3		Creative Arts Elective[C,1]		3
		15				15

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

REQUIRED COURSE TITLES

COMMUNICATION

ENGL	1301[C]	Rhetoric and Composition I
COMS	2302	Professional and Technical Communication for Science and Engineering

U.S. HISTORY

HIST	1311[C]	History of the United States to 1865
HIST	1312[C]	History of the United States, 1865 to Present

GOVERNMENT/POLITICAL SCIENCE

POLS	2311[C]	Government of the United States
POLS	2312[C]	State and Local Government

MATHEMATICS

MATH	1426[C]	Calculus I
MATH	2425[C]	Calculus II
MATH	2326[C,2]	Calculus III
MATH	3319	Differential Equations and Linear Algebra

LIFE AND PHYSICAL SCIENCES

CHEM	1465	Chemistry for Engineers
GEOL	3340	Geology for Engineers
PHYS	1443[C]	General Technical Physics I
PHYS	1444[C]	General Technical Physics II

SOCIAL AND BEHAVIORAL SCIENCES

IE	2308	Economics for Engineers

OTHER ENGINEERING

ENGR	1300	Engineering Problem Solving

CIVIL ENGINEERING

CE	1105	Introduction to Civil Engineering
CE	1252	Computer Tools - AutoCAD
CE	2153	Computer Tools – Civil 3D
CE	2221	Dynamics
CE	2311	Statics
CE	2313	Mechanics of Materials I
CE	2331	Engineering Measurement and Computer Modeling
CE	3210	Civil Engineering Communications
CE	3261	Properties and Behavior of Civil Engineering Materials
CE	3161	Civil Engineering Materials Lab
CE	3301	Stochastic Models for Civil Engineering
CE	3302	Transportation Engineering
CE	3305	Basic Fluid Mechanics
CE	3311	Construction Engineering
CE	3334	Principles of Environmental Engineering
CE	3131	Environmental Engineering
CE	3341	Structural Analysis
CE	3342	Water Resources Engineering
CE	3142	Applied Fluid Mechanics Lab
CE	3343	Soil Mechanics
CE	3143	Properties and Behavior of Soils
CE	4352	Professional Practice
CE	4383	Senior Project

[C] University core curriculum requirement
[1] Approved list on back side
[2] Foundational Component Area core curriculum requirement

APPROVED ELECTIVES FOR CIVIL ENGINEERING MAJORS CIVIL ENGINEERING
TECHNICAL ELECTIVES

Five courses (fifteen hours) of senior technical electives are required. Three of these courses (nine hours) must be from different areas and from one of the following areas: Construction, Environmental, Geotechnical, Transportation or Water Resources. At least one of these three courses must be a design course. The remaining two courses (six hours) may be from any of the six CE areas (free electives). The areas of the technical electives and which are design courses (i.e. **4332**) are shown in the table below.

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