Bachelor of Science in

CIVIL ENGINEERING

MAJOR MAP | 2019-2020

UTEP EDGE

	YOUR CLASS SCHEDULE	ACADEMIC ADVISING	ENRICHING EXPERIENCES	LIFELONG SUCCESS
FRESHMAN	• Register to take classes in this order: UNIV 1301, Foundations of Engineering; MATH 1411; PHYS 2420; then Civil Engineering and core curriculum.	• Meet your PREE Advisor and attend the Intro Compliance session during orientation. • Declare your Civil Engineering major once you register for MATH 1411 (Calculus I) or higher. • Consult the Civil Engineering Advising Sheet.	• Explore student organizations at Gold Rush. • Experience a new culture with a student exchange program. • Network with peers and organize a study group at the ASCE office. • Cultivate leadership and teamwork skills at TCM Day.	• Discover ACES tutoring resources. • Explore career opportunities at the Career Expo and the Engineering & Science Expo.
SOPHOMORE	• Take CE 2315, Statics; CE 2326, Economics for Engineers and Scientists; and PHYS 2421, if not already completed. • Examine the critical path flow chart.	• Meet with your PREE Advisor before registration. • Discuss your degree plan with your PREE Advisor. • Ask your PREE advisor about the Rising Junior Exam. • Consult the CE Advising Sheet.	• Join the American Society of Civil Engineers. • Explore professional engagement opportunities with SWE and MAES/SHPE. • Discover community involvement opportunities in your field with the Center for Civic Engagement. • Strive for high grades to be eligible for introduction into Chi Epsilon, the Civil Engineering Honor Society.	• Visit the Career Center Satellite to develop a resume and investigate employment opportunities. • Cultivate healthy lifestyle habits by visiting the Student Recreation Center.
JUNIOR	• Focus on your upper division Civil Engineering classes. • Examine the critical path flow chart.	• Participate in a mandatory Civil Engineering Group Advising session. • Discuss your degree plan with your advisor. • Ask about internship opportunities and about preparing for the Fundamentals of Engineering Exam (FE). • Consult the Civil Engineering Advising Sheet.	• Explore unique faculty-led travel opportunities with Engineering Global Programs. • Participate in a technical competition such as Steel Bridge, Concrete Canoe, or Mini Baja. • Cultivate global awareness at events sponsored by the Office of International Programs.	• Join the Fundamentals of Engineering Examination (FE) Study Group. • Ask a Peer Career Advisor about internship opportunities. • Revisit the Career Expo and the Engineering & Science Expo. • Explore graduate programs in Engineering.
SENIOR	• Take CE 4188 (Senior Design I) in the Fall. • Take CE 4288 (Senior Design II) in the Spring. • Complete your major requirements and any remaining electives.	• Meet with your Civil Engineering advisor before registration. • Consult the Civil Engineering Advising Sheet. • Review your graduation audit with the Graduation Coordinator.	• Cultivate a leadership role with your student organization. • Expand your community engagement efforts by joining the Ninjaneer Service Learning Program. • Explore research opportunities with COURI.	• Take the Fundamentals of Engineering (FE) Exam. • Visit the Career Center Satellite. • Examine the MSN Program with a Graduate Advisor for mock interviews and resume review. • Apply for graduate school or explore career opportunities.

UPDATED 06/29/18

EDGE ADVANTAGES:

- Leadership
- Problem-solving
- Communication
- Entrepreneurship
- Social Responsibility
- Confidence
- Global Awareness
- Teamwork
- Critical Thinking

CAREER POSSIBILITIES:

- Environmental Engineer
- Geotechnical Engineer
- Materials Engineer
- Structural Engineering
- Transportation Engineer

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UTEP EDGE

Last Name _____ First Name _____ M.I. _____

Catalog: 2017-18
Expires: 08/01/2024

UTEP ID _____

NOTE: Overall GPA ≥ 2.0 AND In-Major GPA ≥ 2.0 REQUIRED for graduation

A Core Curriculum (44 SCH) (minimum of "C" grade required)		Semester Completed	Final Grade	SCH	Sub #
1 Communication (6 credit hours required)					
RWS 1301*	Rhetoric and Composition I				
RWS 1302*	Rhetoric and Composition II				
2 Mathematics (4)					
MATH 1411*	Calculus I				
3 Life and Physical Sciences (7)					
CHEM 1305*	General Chemistry				
CHEM 1105*	Laboratory for CHEM 1305				
CHEM 1306*	General Chemistry				
4 Language, Philosophy, and Culture (3) Select and circle one					
ENGL 2311*, 2312*, 2313*, 2314*, 2318*, FREN 2322*, HIST 2301*, 2302*, PHIL 1301*, 2306*, RS 1301*, SPAN 2340*, WS 2300*, 2350*					
5 Creative Arts (3) Select and circle one					
ART 1300*, ARTH 1305*, 1306*, DANC 1304*, FILM 1390*, MUSL 1321*, 1324*, 1327*, THEA 1313*					
6 American History (6)					
HIST 1301*	History of the U.S. to 1865				
HIST 1302*	History of the U.S. since 1865				
7 Government/Political Science (6) -- all 6 SCH must be completed at the same institution					
POLS 2310*	Introduction to Politics				
POLS 2311*	American Govt. & Politics				
8 Social and Behavioral Sciences (3)					
CE 2326*	Econ. For Engrs & Scientists				
9 Component Area Option (6)					
UNIV 1301*	Foundations of Engineering				
CS 1320*	Computer Programming Sci/Engr				

B Foundational Math & Science (9 SCH)		Semester Completed	Final Grade	SCH	Sub #
MATH 1312*	Calculus II				
MATH 2313*	Calculus III				
MATH 2326*	Differential Equations				

C Major: Required Lower Division Courses (33 SCH)		Semester Completed	Final Grade	SCH	Sub #
CE 1301*	Civil Engineering Fundamentals				
CE 1313*	Engineering Measurements				
CE 2315*	Statics				
CE 2334*	Mechanics of Materials				
CE 2335[a]	Geological Engineering				
CE 2338*	Mechanics II-Dynamics				
CE 2343*	Structural Analysis I				
CE 2373[b]	Engr Probability and Statistical Model				
CE 2375*	Introduction to Thermal-Fluid Science				
CE 2377*[c]	Electro Mechanical Systems				
CE 2385*	Environmental Engineering Fundamentals				

D Major: Required Upper Division Courses (42 SCH)		Semester Completed	Final Grade	SCH	Sub #
CE 3334	Construction Management				
CE 3336	Civil Engineering Materials				
CE 3342	Water and Wastewater Engineering				
CE 3153	Water & Waste Laboratory				
CE 3345	Design of Concrete Structures				
CE 3348	Geotechnical Engineering				
CE 3361	Design of Steel Structures				
CE 3456	Hydrology and Hydraulic Engineering				
CE 4339	Geostructural Design				
CE 4340	Transportation Engineering				
CE 4188	Senior Design I				
CE 4288	Senior Design II				
CE 4195	Senior Professional Orientation				
CE 4375	Advanced Topics in Civil Engineering I				
CE 4376	Advanced Topics in Civil Engineering II				
CE 4377	Advanced Topics in Civil Engineering III				

NOTES:

a -- GEOL 3321, Geology for Engineers, may be substituted.

b -- IE 3373, Engr. Probability & Stat. Models, may be substituted.

c -- IE 2377, Electro-Mechanical Systems, may be substituted

* -- C or better required

** -- official substitution form available at http://engineering.utep.edu/plaza/AcademicForms/index.html

BSCE Total Hours	128

SUBSTITUTIONS**

Sub #	Course on degree plan to substitute	Institution where course was taken	Name of Course as it appears on UTEP Transcript	Course as it appears on UTEP Transcript
1				
2				
3				
4				

APPROVALS:

ADVISOR _____ DATE _____

CHAIR _____ DATE _____

Rev. 06-26-2017