Bachelor of Science – Construction Engineering and Management 2023
Degree Plan (checklist)

Catalog: 2022-23
Expires: 08/01/2029

Last Name | First Name | M.I.

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				
GEOL 1211*	Principles of Earth Sciences				
GEOL 1111*	Principles of Earth Sci - Lab				
4 Language, Philosophy, and Culture (3) Select and circle one					
AFST 2300*, CHIC 2302*, 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*, CHIC 1311*, DANC 1304*,					
FILM 1390*, MUSL 1324*, 1327*, 2321*, 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)					
COMM 1302*	Business/Prof. Communication				
COMM 1301*, CS 1310*, CS1320*, EL 1301*, LEAD 1300*, SCI 1301*, UNIV 1301*					

B Foundational Math & Science (6 SCH)		Semester Completed	Final Grade	SCH	Sub #
MATH 1312*	Calculus II				
MATH 2313*	Calculus III				

C Major: Required Lower Division Courses (27 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 2375*	Introduction to Fluid Mechanics				
CE 2343*	Structural Analysis I				
CE 2335[a*]	Geological Engineering				
CE 2373[b*]	Eng. Probability and Statistical Methods				
ACCT 2301*	Principles of Accounting I				

D Major: Required Upper Division Courses (43 SCH)		Semester Completed	Final Grade	SCH	Sub #
CE 3334	Construction Management				
CE 3336	Civil Engineering Materials				
CE 3348	Geotechnical Engineering				
CE 4339	Geostructural Design				
BLAW 3301	Legal Environment of Business				
FIN 3310	Business Finance				
CE 4386	Construction Law and Ethics				
CE 4382	Construction Cost Analysis and Bidding				
CE 4387	Construction Scheduling				
CE 4385	Construction Internship				
CE 4358	Construction Methods and Materials				
CE 4158	Construction Methods and Materials Lab				
CE 4389	Construction Safety				
CE 4354	Electrical and Mechanical Construction				
CE 4381	Senior Construction Project				

NOTES:

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

b -- IE 3373

* -- C or better required

** Official substitution form available https://www.utep.edu/engineering/student-resources/student-resources-forms.html

BSCEM Total Hours 120

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. 03-22-2021

Subject	Course Number	Course Title	Prerequisites designated with a + might be taken concurrently. Courses designated with a * must be completed with a C or better	Co-requisites	Restrictions				Semester		
					FR	SO	JR	SR	Fall	Spring	Summer
CE	1301*	Civil Engineering Fundamentals	none	MATH 1411	✓	✓	✓	✓	✓	✓	
CE	1313*	Engineering Measurements	MATH 1508* **OR** MATH 1310*	none	✓	✓	✓	✓	✓	✓	
CE	2315*	Statics	MATH 1411* **AND** CE 1301* **AND** PHYS 2420* **OR** PHYS 2320*	none	✓	✓	✓	✓	✓	✓	✓
CE	2326*	Economics for Engineers and Scientists	none	none		✓	✓	✓	✓	✓	✓
CE	2334*	Mechanics of Materials	CE 2315*	none	✓	✓	✓	✓	✓	✓	✓
CE	2335[a]*	Geological Engineering	none	none	✓	✓	✓	✓			
CE	2338[b]*	Mechanics II (Dynamics)	CE 2315* **AND** MATH 1312*	none		✓	✓	✓	✓	✓	
CE	2343*	Structural Analysis	CE 2334*	none	✓	✓	✓	✓	✓	✓	✓
CE	2373[c]*	Engr. Probability and Statistical Methods	MATH 2313*	none	✓	✓	✓	✓			
CE	2375*	Introduction to Fluid Mechanics	CE 2315*	none		✓	✓	✓	✓	✓	✓
CE	2385	Environmental Engineering Fundamentals	CE 2375* **AND** CHEM 1305*	none	✓	✓	✓	✓	✓	✓	
CE	3334	Construction Management	none	none			✓	✓	✓	✓	
CE	3336	Civil Engineering Materials	CE 2334*	none			✓	✓	✓	✓	
CE	3348	Geotechnical Engineering	CE 3336	CE 2335	✓	✓	✓	✓	✓	✓	
CE	4158	Construction Methods and Materials Lab	none	none.			✓	✓	✓		✓
CE	4381	Senior Construction Project	CE 3334 **AND** CE 3336 **AND** CE 3348 **AND** CE 4158 **AND** CE 4358 **AND** CE 4382 **AND** CE 4387 **AND** CE 4389	none.							
CE	4339	Geostructural Design	CE 3348*	none	✓	✓	✓	✓	✓	✓	
CE	4354	Electrical and Mechanical Construction	none	none	✓	✓	✓	✓		✓	✓
CE	4358	Construction Methods and Materials	none	none	✓	✓	✓	✓		✓	
CE	4382	Construction Cost Analysis and Bidding	none	none	✓	✓	✓	✓	✓		
CE	4385	Construction Internship	none	none	✓	✓	✓	✓	✓	✓	✓
CE	4386	Construction Law and Ethics	none	none	✓	✓	✓	✓	✓		
CE	4387	Construction Scheduling	CE 4382	none	✓	✓	✓	✓		✓	✓
CE	4389	Construction Safety	none	none	✓	✓	✓	✓			✓
ACCT	2301	Principles of Accounting I	MATH 1508	none							
BLAW	3301	Legal Environment of Business	ACCT 2301	none							
FIN	3310	Business Finance	ACCT 2301 AND (MATH 1320 OR MATH 1409 or MATH 1410 or MATH 1508)	none							

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

b -- PHYS 3331 is an equivalent course

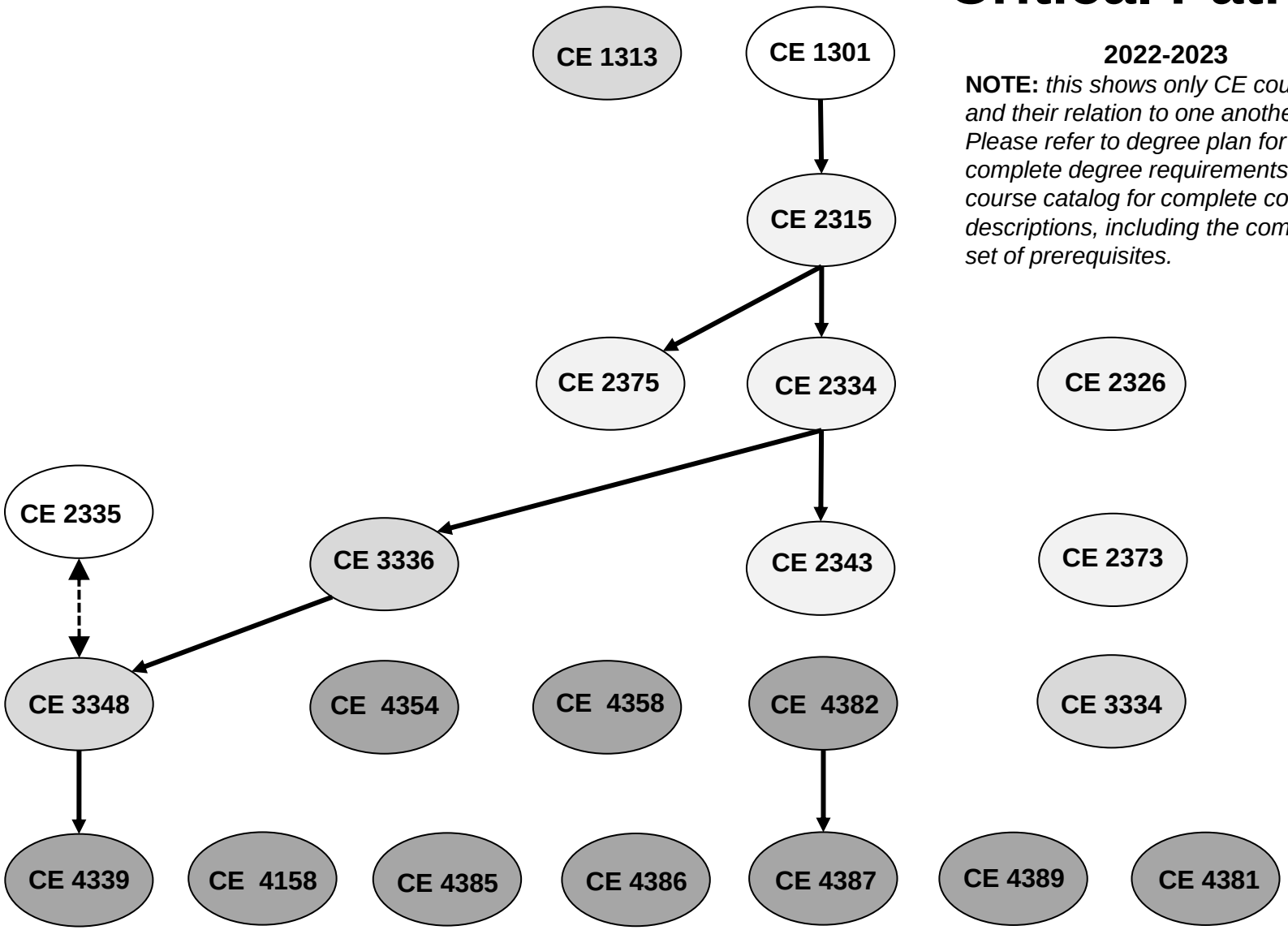
Last Update 05-05-2022

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

BSCEM Critical Path

2022-2023

NOTE: *this shows only CE courses and their relation to one another. Please refer to degree plan for complete degree requirements, and course catalog for complete course descriptions, including the complete set of prerequisites.*



Last Update 05-23-2022

Bachelor of Science in Construction Engineering & Management (Starting with PreCalculus)

Catalog Year 2022-2023
Sample Degree Plan

Required Semester Credit Hours (SCH): 120

Refer to the University Catalog for all degree requirements at **catalog.utep.edu**.
Many core curriculum courses are also offered in the Summer (Su). Students are encouraged to register early and check Goldmine for course availability.
The flowchart below may not reflect all student schedules; courses can be shifted to different semesters where applicable.

*C or better required.
** Not counted in total degree required semester credit hours.
Arrow indicates a prerequisite.
Color-coded boxes group the course subject.
F/Sp/Su indicates the semesters Fall/Spring/Summer.

Freshman Year First Semester (3-5 SCH**)	Freshman Year Second Semester (16 SCH)	Freshman Year Third Semester (16 SCH)	Sophomore Year First Semester (15 SCH)	Sophomore Year Second Semester (15 SCH)	Junior Year First Semester (15 SCH)	Junior Year Second Semester (15 SCH)	Senior Year First Semester (13 SCH)	Senior Year Second Semester (14 SCH)

University Core Curriculum*

- **RWS 1301** Rhetoric and Comp. I (3SCH) (F/Sp)
- **RWS 1302** Rhetoric and Comp. II (3SCH) (F/Sp)
- **HIST 1301** History of U.S. to 1865 (3SCH) (F/Sp)
- **HIST 1302** History of U.S. since 1865 (3SCH) (F/Sp)
- **POLS 2310** Introduction to Politics (3SCH) (F/Sp)
- **POLS 2311** American Gov. and Politics (3SCH) (F/Sp)
- **UNIV 1301** Seminar Inquiry (3SCH) (F/Sp)
- **CHEM 1305 & 1105** General Chemistry & Lab (4SCH) (F/Sp)
- See University Catalog — **Creative Arts** (3SCH) (F/Sp)
- **CE 2326** Econ. for Engrs. & Scientists (3SCH) (F/Sp)
- **COMM 1302** Business/Professional Communication (3SCH) (F/Sp)
- **GEOL 1211 & 1111** Princ. of Earth Sci. & Lab (3SCH) (F/Sp)
- See University Catalog — **Language, Philosophy, and Culture** (3SCH) (F/Sp)
- **MATH 1411** Calculus I (4SCH) (F/Sp)

Major Courses

- **CE 1301*** Civil Engineering Fundamentals (3SCH) (F/Sp)
- **CE 2315*** Statics (3SCH) (F/Sp)
- **CE 2334*** Mechanics of Materials (3SCH) (F/Sp)
- **CE 2343*** Structural Analysis (3SCH) (F/Sp)
- **CE 3336** Civil Engineering Materials (3SCH) (F/Sp)
- **CE 3348** Geotechnical Engineering (3SCH) (F/Sp)
- **CE 4339** Geostructural Design (3SCH) (F/Sp)
- **CE 4385** Construction Internship (3SCH) (F/Sp)
- **CE 1313*** Engineering Measurements (3SCH) (F/Sp)
- **CE 2335** Geological Engineering (3SCH) (F/Sp)
- **CE 2375*** Intro to Fluid Mechanics (3SCH) (F/Sp)
- **CE 3334** Construction Management (3SCH) (F/Sp)
- **FIN 3310** Business Finance (3SCH) (F/Sp)
- **CE 4354** Electrical & Mechanical Construction (3SCH) (F/Sp)
- **CE 4389** Construction Safety (3SCH) (F/Sp)
- **ACCT 2301*** Principles of Accounting (3SCH) (F/Sp)
- **CE 2373** Engr. Probability & Statistics (3SCH) (F/Sp)
- **BLAW 3301** Legal Environment of Business (3SCH) (F/Sp)
- **CE 4382** Construction & Cost Analysis & Bidding (3SCH) (F/Sp)
- **CE 4387** Construction Scheduling (3SCH) (F/Sp)
- **CE 4358** Construction Methods & Materials (3SCH) (F/Sp)
- **CE 4386** Construction Law & Ethics (3SCH) (F/Sp)
- **CE 4158** Construction Methods & Materials Lab (1SCH) (F/Sp)
- **CE 4381** Senior Construction Project (2SCH) (F/Sp)

Fndtnal Math*

Degree Prerequisite
- **MATH 1508** Precalculus
  or
  MATH 1310 Trigonometry & Conics (3-5 SCH**) (F/Sp/Su)
- **MATH 1312** Calculus II (3SCH) (F/Sp)
- **MATH 2313** Calculus III (3SCH) (F/Sp)

Bachelor of Science in Construction Engineering & Management (Starting with Calculus)

Catalog Year 2022-2023
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- **GEOL 1211 & 1111** Princ. of Earth Sci. & Lab (3SCH) (F/Sp)
- **MATH 1411** Calculus I (4SCH) (F/Sp)

Major Courses

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- **CE 4386** Construction Law & Ethics (3SCH) (F/Sp)
- **CE 4158** Construction Methods & Materials Lab (1SCH) (F/Sp)
- **CE 4381** Senior Construction Project (3SCH) (F/Sp)

Fndtnal Math*

- **MATH 1312** Calculus II (3SCH) (F/Sp)
- **MATH 2313** Calculus III (3SCH) (F/Sp)

Last Updated: January 2022