

## Civil Engineering Catalog 2024

Fall 16 hours	Chem 122(3) and 123(1) or 128 (4) (NS) FA, SP, SU Prereq: Math 119; recommended background in Math 131	Math 132 or 141 or 147 (3-4) (QR) FA, SP, SU Math 132 Prereq: Math 131 Math 141 Prereq: ACT Math 28 or SAT Math 660	EF 142 or 151 or 157 (4) (EI) FA, SP EF 142 Prereq: EF 141 with C- or better and Math 131 EF 142 Coreq: Math 132 EF 151 Coreq: 141/147 or higher and EF 105 or COSC 101 or CS 102	EF 105 (1) FA, SP Coreq: EF 151 or 157	English 101 or 131 (3) FA, SP, SU 101 Standard; 131 English as Second Language		
Spring 15 hours	Chem 132(3) and 133(1) or 138 (4) (NS) FA, SP, SU Prereq: Chem 122 and 123 or 128	Math 142 or 148 (4) (OR) FA, SP, SU Prereq: Math 132 or 141 or 147	EF 152 or 158 (4) (NS and EI) FA, SP, SU Prereq: EF 142/151/157 with C or higher Coreq: Math 142 or 148	English 102 or 112 or 298 or 132 (3) FA, SP, SU 102 Prereq 101; 112 Prereq is AP 101 and Test Scores; 298 Prereq University Honors only. 132 Prereq 131 ESL			
Fall 16 hours	Math 231 or 237 (3) FA, SP, SU Prereq: Math 142 or 148	STATS 251 (3) FA, SP, SU Prereq: Math 142 or 148	ECON 201 or 207 (4) FA, SP, SU Vol Core - Social Science (SS)	ME 202 (2) FA, SP, SU Coreq: EF 152 or 158 and Math 142 or 148	CE 210 (4) FA, SP Minimum student level — sophomore		
Spring 16-17 hours	Math 241 or 247 (4) FA, SP, SU Prereq: Math 142 or 148	CE 391 (3) FA, SP Prereq: EF 152 or 158 Coreq: CE 262 or ME 202 and Math 231/237	CE 262 (4) FA, SP, SU Prereq: ME 202	Science Elective *(3-4) FA, SP, SU Choose one from approved list*	CE 205 (OC and WC) (2) FA, SP Prereq: EF 142 or 151 or 157; English 102, 112, 132, or 298 Minimum student level — sophomore; Civil majors		
Fall 16 hours	Vol Core (3) FA, SP, SU Global Citizenship United States (GCUS)	CE 381 (3) FA, SP, SU Prereq: CE 391 and Chemistry 132 and 133 or Chem 138	CE 331 (3) FA, SP Prereq: CE 262 Coreq: CE 310	CE 371 (3) FA, SP Prereq: CE 262	CE 355 (3) FA, SP Prereq: EF 152 or 158 Recommended background CE 210	CE 310 (1) FA, SP Prereq: CE 262 Coreq: CE 205	
Spring 16 hours	Vol Core (3) FA, SP, SU Arts and Humanities (AH)	EF 230 or 237 (2) FA, SP Prereq: EF 105 or CS 102 Co-req: EF 152/158	CE 340 (3) FA, SP Coreq: CE 300, Civil and Nuclear major Minimum student level: Junior	CE 321 (3) FA, SP Prereq: CE 262	CE 300 (3) FA, SP Restriction: Sophomore standing or above in Civil	CE 305 (2) FA, SP Prereq: CE 205	
Fall 16 hours	Vol Core (3) FA, SP, SU Expanded Perspectives- choose from AH, AAH, GCUS, GCI, or SS	Vol Core (3) FA, SP, SU Global Citizenship International (GCI)	CE 399S (1) (AOC and EI) FA, SP Minimum student level: Senior Must be taken term prior to CE 400	CE 401 (2) FA, SP Minimum student level: Senior Civil majors	CE Concen. Elective *(3) FA, SP	CE Concen. Lab *(1) FA, SP	Technical Elective *(3) FA, SP, SU
Spring 16 hours	Vol Core (3) FA, SP, SU Expanded Perspectives- choose from AH, AAH, GCUS, GCI, or SS	CE Concen. Elective *(3) FA, SP	CE Concen. Lab *(1) FA, SP	CEE 400 (3) FA, SP Prereq: CE 399S	Technical Elective *(3) FA, SP, SU	Technical Elective *(3) FA, SP, SU	

\***Science Elective-** Students select from Biology 101, 102, 150 or 158, 160 or 168; Geography 131; Geology 101, 103, 107; Environ.Engineering 513; Environ. Soil Science 462.

\*\***CE Concentration Electives/Labs-** Students must select 2 of the following concentration sequences:

Offered only in the Fall: structural (CE 461 or 467 and CE 463), transportation (CE 455 or 458 and CE 456), water resources (CE 494 or 497 and CE 496),

Offered only in the Spring: environmental (CE 481 or 487 and CE 482), geotechnical (CE 430/533 or 437/533 and CE 432), construction<sup>1</sup> (CE 441 or 448 and CE 432[SP] or CE 463[FA]).

### \*\*\*Technical Electives

All areas ACCT. 200/207, EF 333, PHYS 231, PHYS 232, MATH 251, ME 231, ME 331, ECE 201, COSC 102, CHEM 210, CHEM 260/268  
 Construction CE 581, CE 582, CE 583, CE 584  
 Environmental CE 485, CE 495, CHEM 210, CHEM 260/268, CHEM 330, ENVE 511, ENVE 513, GEOG 411  
 Geotechnical CE 531, CE 535; GEOL 310, GEOL 330, GEOL 340, GEOL 370, and GEOL 471  
 Materials CE 521, CE 522, CE 525  
 Structures CE 462, CE 472, CE 474, CE 576  
 Transportation CE 551, CE 552, CE 553, GEOG 411  
 Water Resources CE 485, CE 495, ENVE 515, ENVE 516, ENVE 526, ENVE 533, GEOG 411

Please be advised that this list is not exhaustive and additional courses may be considered and approved as technical electives by departmental petition. For example, students may take any Civil or ENVE 500 level course and additional Civil concentration electives beyond the two (2) required as technical electives. Most upper level engineering, math, and science classes are also permissible. Please contact the Civil Engineering Advisor if you would like to request approval for a course.

### Civil Graduation Requirements

Students are required to maintain a cumulative grade point of at least 2.0 in all civil engineering and environmental engineering courses taken at the University of Tennessee, Knoxville, used to satisfy the graduation requirements.

No more than four credit hours of civil and environmental engineering courses in which a C- or lower is the highest grade earned may be counted toward graduation. Students must earn a grade of C or better in all courses within their two selected concentrations. Students are strongly recommended to meet with their faculty advisor every semester.

Students also have opportunities for an Honors Concentration and/or a five year BS/MS program. See the Undergraduate Catalog for details and requirements.

<sup>1</sup> The construction concentration sequence does not have a dedicated lab unlike the other concentrations. For this reason, students may either take the geotechnical or structural lab to complete this course sequence. However, students may not double-count concentration labs (e.g. if your chosen concentrations are construction and structural, you may not use the structural lab to satisfy the construction sequence and must take the geotechnical lab to complete the construction lab requirement).

Volunteer Core courses highlighted in light orange.