

Civil Engineering Catalog 2021

Fall 16 hours	Chem 122 (3) and 123(1) or 128 (4) FA, SP, SU Prereq: Math 119; recommended background in Math 131	Math 141 or 147 (4) FA, SP, SU Prereq: Math ACT 28 or Math SAT 660	EF 151 or 157 (4) FA, SP Coreq: Math 132/141/147 or higher and EF 105 or CS 101 or CS 102	EF 105 (1) FA, SP Coreq: EF 151 or 157	English 101/118 or 198 or 131 (3) FA, SP, SU 101 Regular; 118 Honors; 198 Chancellor Honors Only; 131 English as Second Language		
Spring 15 hours	Chem 132 (3) and 133(1) or 138 (4) FA, SP, SU Prereq: Chem 122 and 123 or 128	Math 142 or 148 (4) FA, SP, SU Prereq: Math 132 or 141 or 147	EF 152 or 158 (4) FA, SP, SU Prereq: EF 142/151/157 with C or higher Coreq: Math 142 or 148	English 102 or 290 or 298 or 132 (3) FA, SP, SU 102 Prereq 101 or 118; 290 Prereq AP 101 credit 298 Prereq Chancellor Honors only & 198; 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 Social Science	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 & WC) (2) FA, SP Prereq: EF 151 or 157; English 102, 132, 290, or 298 Minimum student level — sophomore; Civil majors		
Fall 16 hours	Gen Ed (3) FA, SP, SU Cultures and Civilizations	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 205 and 262	
Spring 16 hours	Gen Ed (3) FA, SP, SU Arts and Humanities	EF 230 (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	Gen Ed (3) FA, SP, SU Social Science	Gen Ed (3) FA, SP, SU Cultures and Civilizations	CE 399S (1) 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	Gen Ed (3) FA, SP, SU Arts and Humanities	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), construction¹ (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.

¹ 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).