

## Civil Engineering Catalog 2020

Fall 16 hours	<b>Chem 120 or 128 (4) FA, SP, SU</b> Prereq-Math 119; recommended background in Math 131	<b>Math 141 or 147 (4) FA, SP, SU</b> Prereq- Math ACT 28 or Math SAT 660	<b>EF 151 or 157 (4) FA, SP</b> Coreq- Math 132/141/147 or higher and EF 105 or CS 101 or CS 102	<b>EF 105 (1) FA, SP</b> Coreq- EF 151 or 157	<b>English 101/118 or 198 or 131 (3) FA, SP, SU</b> 101 Regular; 118 Honors; 198 Chancellor Honors Only; 131 English as Second Language		
Spring 15 hours	<b>Chem 130 or 138 (4) FA, SP, SU</b> Prereq- Chem 120 or 128	<b>Math 142 or 148 (4) FA, SP, SU</b> Prereq- Math 132 or 141 or 147	<b>EF 152 or 158 (4) FA, SP, SU</b> Prereq-EF 151/157 with C or higher Coreq- Math 142 or 148	<b>English 102 or 290 or 298 or 132 (3) FA, SP, SU</b> 102 Prereq 101 or 118, 290 Prereq AP 101 credit 298 Prereq Chancellor Honors only & 198; 132 Prereq 131 ESL			
Fall 16 hours	<b>Math 231 or 237 (3) FA, SP, SU</b> Prereq- Math 142 or 148	<b>STATS 251 (3) FA, SP, SU</b> Prereq- Math 142 or 148	<b>ECON 201 or 207 (4) FA, SP, SU</b> Social Science	<b>ME 202 (2) FA, SP, SU</b> Coreq- EF 152 or 158 and Math 142 or 148	<b>CE 210 (4) FA, SP</b> Minimum student level — sophomore		
Spring 16-17 hours	<b>Math 241 or 247 (4) FA, SP, SU</b> Prereq- Math 142 or 148	<b>CE 391 (3) FA, SP</b> Prereq- EF 152 or 158 Coreq- CE 262 or ME 202 and Math 231/237	<b>CE 262 (4) FA, SP, SU</b> Prereq- ME 202	<b>Science Elective *(3-4) FA, SP, SU</b> Choose one from approved list*	<b>CE 205 (OC &amp; WC) (2) FA, SP</b> Prereq- EF 151 or 157; English 102, 132, 290, or 298 Minimum student level — sophomore; Civil majors		
Fall 16 hours	<b>Gen Ed (3) FA, SP, SU</b> Cultures and Civilizations	<b>CE 381 (3) FA, SP, SU</b> Prereq- CE 391 and Chemistry 130 or 138	<b>CE 331 (3) FA, SP</b> Prereq- CE 262 Coreq- CE 310	<b>CE 371 (3) FA, SP</b> Prereq- CE 262	<b>CE 355 (3) FA, SP</b> Prereq- EF 152 or 158 Recommended background CE 210	<b>CE 310 (1) FA, SP</b> Prereq- CE 205 and 262	
Spring 16 hours	<b>Gen Ed (3) FA, SP, SU</b> Arts and Humanities	<b>EF 230 (2) FA, SP</b> Prereq- EF 105 or CS 102 Co-req- EF 152/158	<b>CE 340 (3) FA, SP</b> Coreq- CE 300, Civil and Nuclear major Minimum student level- Junior	<b>CE 321 (3) FA, SP</b> Prereq- CE 262	<b>CE 300 (3) FA, SP</b> Restriction- Sophomore standing or above in Civil	<b>CE 305 (2) FA, SP</b> Prereq- CE 205	
Fall 16 hours	<b>Gen Ed (3) FA, SP, SU</b> Social Science	<b>Gen Ed (3) FA, SP, SU</b> Cultures and Civilizations	<b>CE 399S (1) FA, SP</b> Minimum student level- Senior Must be taken term prior to CE 400	<b>CE 401 (2) FA, SP</b> Minimum student level- Senior Civil majors	<b>CE Concen. Elective *(3) FA, SP</b>	<b>CE Concen. Lab *(1) FA, SP</b>	<b>Technical Elective *(3) FA, SP, SU</b>
Spring 16 hours	<b>Gen Ed (3) FA, SP, SU</b> Arts and Humanities	<b>CE Concen. Elective *(3) FA, SP</b>	<b>CE Concen. Lab *(1) FA, SP</b>	<b>CEE 400 (3) FA, SP</b> Prereq- CE 399S	<b>Technical Elective *(3) FA, SP, SU</b>	<b>Technical Elective *(3) FA, SP, SU</b>	

\***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: environmental (CE 481 or 487 and CE 482 ), geotechnical (CE 430 or 437 and CE 432 ), 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 ), construction (CE 441 or 448 and CE 432 or CE 463).

### \*\*\*Technical Electives

All areas Acctg. 200/207, EF 333, Physics 231, Physics 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, Envr 511, Envr 513, Geog 411

Geotechnical CE 531, CE 535; Geology 310, 330, 340, 370, and 471

Materials CE 521, CE 522, CE 525

Structures CE 462, CE 472, CE 474, CE 576

Transportation CE 551, CE 552, 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. Additional upper level engineering, math, and science classes may also be considered. 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.