### Civil Engineering Catalog 2019

#### Fall
- **Chem 120 or 128 (4) FA, SP, SU**
  - Prereq: Math 120 or Math ACT 28 or Math SAT 620
- **Math 141 or 147 (4) FA, SP, SU**
  - Prereq: Math 141 or 147 and EF 105
- **EF 105 (1) FA, SP**
  - Coreq: EF 151 or 157
- **English 101/118 or 198 or 131 (3) FA, SP, SU**
  - Prereq: Math 119; recommended background Math 130
  - Math SAT 630
- **EF 151 or 157 (4) FA, SP**
  - Coreq: EF 152 or 158
- **15 hours**

#### Spring
- **Chem 130 or 128 (4) FA, SP, SU**
  - Prereq: Chem 120 or 128
- **Math 142 or 148 (4) FA, SP, SU**
  - Prereq: Math 141 or 147
- **EF 152 or 158 (4) FA, SP, SU**
  - Coreq: EF 152 or 158
- **English 102 or 290 or 298 or 132 (3) FA, SP, SU**
  - Prereq: 101 or 118; 290 AP 101 credit
  - 298 Prereq Chancellor Honors only & 198
  - 132 Prereq 131 ESL
- **16 hours**

#### Fall
- **Math 231 or 237 (3) FA, SP, SU**
  - Prereq: Math 142 or 148
  - Social Science
  - Coreq: EF 152 or 158
- **STATS 251 (3) FA, SP, SU**
- **ECON 201 or 207 (4) FA, SP, SU**
  - Prereq: EF 151 or 157
- **ME 202 (2) FA, SP, SU**
- **CE 210 (4) FA, SP**
- **16 hours**

#### Spring
- **Math 241 or 247 (4) FA, SP, SU**
  - Prereq: Math 142 or 148
  - CE 291 and Chemistry 130 or 138
  - CE 381 (3) FA, SP, SU
  - Coreq: CE 205 and 262
  - CE 355 (3) FA, SP
- **CE 391 (3) FA, SP**
  - Prereq: CE 262
- **CE 381 (3) FA, SP**
  - Prereq: CE 391 and Chemistry 130 or 138
  - Coreq: CE 205 and 262
  - CE 381 (3) FA, SP
- **CE 381 (3) FA, SP**
  - Prereq: EF 151 or 157
  - English 102, 132, 290, or 298
- **15-17 hours**

#### Fall
- **Gen Ed (3) FA, SP, SU**
- **CE 381 (3) FA, SP**
  - Prereq: EF 151 or 157
  - Arts and Humanities
  - Coreq: CE 205
  - CE 281 (3) FA, SP, SU
  - Prereq: EF 151 or 157
  - Cultures and Civilizations
  - Coreq: CE 205
- **16 hours**

#### Spring
- **Gen Ed (3) FA, SP, SU**
- **CE 399S (1) FA, SP**
  - Prereq: CE 262
- **CE 401 (2) FA**
- **CE Concentration Electives/Labs (3) FA, SP**
  - Prereq: CE 262
  - GE 401 (3) FA, SP
  - Minimum student level — sophomore
  - Coreq: CE 310
  - CE 401 (2) FA, SP
- **16 hours**

#### Fall
- **Gen Ed (3) FA, SP, SU**
- **CE 391 (3) FA, SP, SU**
  - Prereq: CE 391 and Chemistry 130 or 138
  - Social Science
  - Coreq: CE 205 and 262
  - CE 381 (3) FA, SP
- **Gen Ed (3) FA, SP, SU**
  - Prereq: CE 391 and Chemistry 130 or 138
  - Social Science
  - Coreq: CE 205 and 262
  - CE 381 (3) FA, SP
  - Minimum student level—sophomore
  - CE 391 (3) FA, SP
  - Minimum student level—sophomore
  - CE 391 (3) FA, SP
- **16 hours**

#### Spring
- **Gen Ed (3) FA, SP, SU**
  - Prereq: EF 230 (2) FA, SP
  - Arts and Humanities
  - Coreq: CE 300, Civil and Nuclear major
  - Coreq: CE 300
  - CE 300 (2) FA, SP
  - Minimum student level — sophomore
  - CE 300 (2) FA, SP
- **Gen Ed (3) FA, SP, SU**
  - Prereq: EF 333, Physics 231, Physics 232, Math 251, ME 231, ME 331, ECE 201, COSC 102, Chem 210, Chem 260/268
  - Conant 581, CE 582, CE 583, CE 584
  - Geological 531, CE 535; Geology 310, 330, 340, 370, and 471
  - Materials 521, CE 522, CE 525
  - Structures 462, CE 472, CE 474, CE 576
  - Transportation 551, CE 552, Geog 411
  - Water Resources 485, CE 495, ENVE 515, ENVE 516, ENVE 526, ENVE 533, Geog 411
  - 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.

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*Science Electives*- 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**
  - CE 581, CE 582, CE 583, CE 584
  - CE 531, CE 535; Geology 310, 330, 340, 370, and 471
  - Materials 521, CE 522, CE 525
  - Structures 462, CE 472, CE 474, CE 576
  - Transportation 551, CE 552, Geog 411
  - Water Resources 485, CE 495, ENVE 515, ENVE 516, ENVE 526, ENVE 533, Geog 411

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