

Civil Engineering - General Program

2014-2015 Catalog

128 Total Credits

First Year

Semester 1

- 3 CE 160 (Engr Problem Solving)
- 4 Chem 177 (General Chemistry I)
- 1 Chem 177L (Gen Chemistry Lab)
- 3 Engl 150 (Critical Think Comm)
- 4 Math 165 (Calculus I)
- 1 Lib 160 (Library)
- R Engr 101 (Engr Orientation)
- 0 CE 120 (optional-Learning Community)

16 Total Credits

Semester 2

- 1 CE 105 (Intro to Profession)
- 3 CE 111 (Surveying I)
- 2 CE 170 (Civil Engr Graphics)
- 4 Math 166 (Calculus II)
- 5 Phys 221 (Classical Physics I)
- 3 SSH Elective

18 Total Credits

Sophomore Year

Semester 3

- 3 Engl 250 (WOVE Comp)
- 3 EM 274 (Statics)
- 3 Chem 178 (General Chemistry II)*
- 1 Chem 178L (Gen Chemistry II Lab)*
- 3 Math 266 (Differential Equations)
- 3 Geol 201 (Geology for Engineers)

16 Total Credits

Semester 4

- 3 CE 206 (Economic Analysis)
- 3 EM 324 (Mechanics of Materials)
- 1 EM 327 (Mech of Materials Lab)
- 3 Sp Cm 212 (Public Speaking)
- 3 Numerical Analysis Elective
- 3 Statistics Elective

16 Total Credits

Junior Year

Semester 5

- 3 CE 326 (Environmental Engr)
- 3 CE 332 (Structural Analysis I)
- 3 CE 360 (Geotechnical Engineering)
- 3 EM 378 (Mechanics of Fluids)
- 3 Technical Communications
- 3 CE 355 (Transportation Engr)

18 Total Credits

Semester 6

- 3 CE 334 (Concrete Design I)**
- 3 CE 372 (Engr Hydro & Hydraulics)
- 3 CE 382 (Design of Concretes)
- 3 CE 306 (Project Management)
- 3 Engineering Topic Elective

15 Total Credits

Senior Year

Semester 7

- 3 CE 333 (Steel Design I)**
- 3 CE 453 (Highway Design)
- 3 EM 345 (Dynamics)
- 2 Engineering Topic Elective
- 6 SSH Elective

17 Total Credits

Semester 8

- R CE 403 (Outcomes Assessment)
- 3 CE 485 (CE Design I)
- 3 Engineering Topic Elective
- 3 CE Design Elective
- 3 SSH Elective

12 Total Credits

* Phys 222 may be substituted for Chem 178/178L

** CE 460 may be substituted for CE 333 or CE 334