### Construction Engineering PREREQUISITES CHART

**Heavy/Highway Emphasis = 124 Credits**  
*Catalog 2012-2013*

---

**Freshman**
- *Engl. 150 (3)*
- ConE 121 (1) Learning Comm
- *Chemistry 167(4)* H.S. Prep or Math 140
- *Math 165 (4)* C- or Better
- *CE 160 (3)* Cr/Enr in Math 142 & 165
- *Engr. 101 (R)*
- Lib 160 (1)
- ConE 122 (1) Learning Comm
- *Physics 221 (5)* Enrollment in Math 166
- *Math 166 (4)* C- or Better
- CE 170 (2) H.S. Prep or Math 142

**Sophomore**
- CE 111 (3) Surveying
- Physics 222 (5)
- Math 267 (4)** OR Math 266 (3)
- Math or Stat Elective (3)
- Stats 105 (3) Stat for Engineers
- CE 241 (3) Constr. Mat & Meth
- Con E 222 (3) Org & Mgmt
- *Engl. 250 (3)*
- EM 274 (3) Statics
- Con E 251 (1) M/E Mat & Meth

**Junior**
- EM 378 (3) Mech of Fluids
- EM 324 (3) Mech of Mats
- E M 327 (1) Mech of Mats Lab
- Con E 322 (3) Equip & Hvy Meth
- CE 332 (3) Struc Analysis I
- CE 360 (3) Soils Engr
- Law Elective (3) (Junior Classification)
- Con E 340 (3) Concr & Steel

**Senior**
- CE 333 (3) Struc Dsgn Stl I
- CE 382 (3) Design of PCC and Asphalt Pavement
- Con E 341 (3) Pllng, Sched, Ctrl
- Con E 441 (3) Estimating
- CE 334 (3) Reinf Concr Dsgn I
- CE 487 (3) (w/in 2 Semester of Graduation) Engr Design I
- Con E 488 (3) (w/in 2 Semester of Graduation) Engr Design II

---

### Electives

**Social Science and Humanities (12 Cr.)**
- ___ Psych 101, 230, 250 or 280 or Soc 134 (3 cr)
- ___ Econ 101 or 102 (3 cr)
- ___ US Diversity** (3 cr)
- ___ International Perspective** (3 cr)

**Other Electives (17 Cr.)**
- ___ Math or Stat Elective** (3 cr)
- ___ Business Communication (3 cr)  
  Engl 302, 309 or 314
- ___ Business Elective:  
  IE 305 Engineering Economic Analysis (3 cr)
- ___ Engineering Topics Elective** (5 cr)
- ___ Law Elective (3 cr)  
  ConE 380 or Accounting 215

---

*Denotes Basic Program course  
**See catalog or matrix for approved courses  
***To allow greater flexibility in changing between Emphases and to meet ABET requirements, students are encouraged to take Math 267.

---

**Revised 11/30/17 af**