Courses which are pre-requisites must be completed with a grade of “C” (2.0) or better.

**CONSTRUCTION ENGINEERING**

2016 CATALOG - REQUIRED COURSEWORK

**COURSE PREREQUISITE CRITICAL PATH DIAGRAM**

Four Critical Paths:
- Construction Estimating & Scheduling (CCE 4003)
- Geotechnical Engineering (CEG 4011)
- Fluid Mechanics (CWR 3201)
- Structural Analysis 1 (CES 4100C)

**Markdown Format:***

- **Courses which are pre-requisites must be completed with a grade of “C” (2.0) or better.**

**Diagram Details:**

- **MAC 2312 Calc/Anl Geom II (4)**: Fall/Sp/Su
- **MAC 2311C Calc/Anl Geom I (4)**: Fa/Sp/Su
- **MAC 2049C Physics Using Calc II (4)**: Fa/Sp/Su
- **PHY 2048C Physics Using Calc I (4)**: Fa/Sp/Su
- **EGR 3310 Engr Statics (3)**: Fa/Sp/Su
- **EGN 3311C Mechanics of Materials (3)**: Fa/Sp/Su
- **MAP 2302 Differential Equations (3)**: Fa/Sp/Su
- **CGN 3405 Num Meth CE (3)**: Fa/Sp
- **ENV 3001 Environmental Engr (3)**: Fa/Sp/Su
- **EGN 3613 Engineering Econ Analy (2)**: Fa/Sp/Su
- **EGN 3321 Engr Anal Dynamics (3)**: Fa/Sp/Su
- **CHS 1440 Principles of Chemistry (4)**: Fa/Sp
- **CGN 3501C Civil Engineering Materials (3)**: Fa/Sp
- **CCE 4004 Construction Methods (3)**: Sp
- **CWR 3201 Engr Fluid Mechanics (3)**: Fa/Sp/Su
- **CWR 4202C Hydraulics (3)**: Fa/Sp/Su
- **CCE 4003 The Constr Industry (3)**: Fa/Sp/Su
- **CCE 4034 Constr Estimating & Scheduling (3)**: Fa
- **CCE 4402 Constr Equipmt & Productivity (3)**: Sp
- **CWR 4020C Constr Equipmt & Productivity (3)**: Fa/Sp/Su
- **CCE 4813 Mech & Elec Systems for Bldgs (3)**: Fa
- **CCE 4808C CE Capstone Design (3)**: Fa/Sp/Su
- **ACQ 2071 Managerial Accounting (3)**: Fa/Sp/Su

**Required Design Courses:**
- **CCE 4810C Construction Engr Design (3)**: Sp
- **CGE 4011C Geotech Engr (4)**: Fa/Sp/Su
- **CWR 4020C Constr Equipmt & Productivity (3)**: Fa/Sp/Su

**Other Required (General Education/A.A. Degree) Courses that do not have critical paths:**
- **ENC 1101 English Comp I (3)**
- **ENC 1102 English Comp II (3)**
- **HUM/AMH/ EEUH/WOH I (3)**
- **HUM/AMH/ EEUH/WOH II (3)**
- **Cultr/Histcl Elective (9-11)**
- **ANTE/PSY/ SYG (3)**
- **ECO/POS (3)**
- **GEO/GLY/ BSC (3)**

**Key:**
- *Fa=*Fall  
- *Sp=*Spring  
- *Su=*Summer

- **Required to clear “Pending”**

- **Highlight:** Courses are part of longest “critical” path(s).
- **Transfer Students** will take an upper level Technical Elective course in place of EGS 1006C and EGN 1007C.