BS in Civil Engineering Curriculum

KSU/CIVIL ENGINEERING CURRICULUM FLOWCHART 2017-2018 (130 Credit Hours)

**15 hrs**
- Fall - Freshman
  - ENGL 1101 Composition I (3)
  - MATH 1190 Calculus I (4)
  - MATH 1113

**18 hrs**
- Fall - Sophomore
  - ENGL 1102 Composition II (3)
  - CHEM 1211L Chemistry Lab (1)
  - Concurrent w/1211
  - CHEM 1212L Chemistry II Lab (1)
  - Concurrent w/1212

**17 hrs**
- Spring
  - PHYS 2211L Physics I Lab (1)
  - Concurrent w/2211
  - PHYS 2212L Physics II Lab (1)
  - Concurrent w/2212
  - PHYS 2212 Physics II (3)
  - SURV 2221 Surveying I (4)

**16 hrs**
- Fall - Junior
  - ENGR 2214 Statics (3)
  - ENGR 2214 Fluid Mechanics (3)
  - ENGR 3343 Fluid Mechanics (3)
  - ENGR 3343 Geotechnical Engineering (3)
  - ENGR 3345 Fluid Mechanics Lab (1)
  - Concurrent w/3343

**17 hrs**
- Spring
  - Core B1 ECON 1000 Contemporary Economic Issues (2)
  - ENGR 3324 Project Cost Analysis (3)
  - ENGR 3131 Strength of Materials (3)
  - MATH 2306 Differential Equations (3)

**16 hrs**
- Fall - Senior
  - CE 3201 Structural Analysis (3)
  - Core E2 (3)
  - CE 3704 Env Engr Lab (1)
  - CE 3708 Geotechnical Lab (1)
  - Concurrent w/3701

**16 hrs**
- Spring
  - Core E3 (3)
  - CE 3702 Env Engr I (3)
  - CE 3701 Geotechnical Engineering (3)
  - Core C2 (3)

**15 hrs**
- Senior
  - CE 3501 Materials for Civil/Const Engr Lab (1)
  - Concurrent w/3501
  - CE 3502 Materials for Civil/Const Engr Lab (1)
  - Concurrent w/3502
  - CE 4177 Transportation Eng (3)
  - CE 4179 Transp Lab (1)
  - Concurrent w/4177

**CE ELECTIVE COURSES (12 hrs)**
- Select two courses from CE Discipline Groups 1 to 3, but not more than one from each CE Discipline Group 1-3. The remaining two courses may be selected from ANY CE Discipline Group 1 to 4.

**CE Discipline Group 1: Environmental Engineering**
- CE 3703 Environmental Engineering Design
  - CE 4343 Solid Waste Engineering
  - CE 4353 Air Pollution Control
  - CE 4708 Hazardous Waste Engineering

**CE Discipline Group 2: Geotechnical/Materials Engineering**
- CE 4105 Foundation Design
  - CE 4705 Advanced Soil Mechanics
  - CE 4706 Pavement Engineering

**CE Discipline Group 3: Transportation Engineering**
- CE 4178 Highway Design and Construction
  - CE 4704 Hydraulic Analysis and Design
  - CM 3040 Building Info Modeling Applications

**CE Discipline Group 4: Water Resource Engineering**
- CE 3398 Internship
  - CE 4103 Design of Steel Structures
  - CE 4707 Design of Wood Structures

- Upper Division Surv/GIS