BS in Civil Engineering Curriculum

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

15 hrs
Fall
Freshman
ENGL 1101 Composition I (3)
ENGL 1102 Composition II (3)
MATH 1190 Calculus I (4)
MATH 2202 Calculus II (4)
MATH 2306 Differential Equations (3)
PHYS 2211 Physics I (3)
EDG 2160 Civil Graphics (3)
CHEM 1211L Chemistry I Lab (1) Conc w/1211
CHEM 1212L Chemistry II Lab (1) Conc w/1212
CHEM 1211 Chemistry I (3)
Math 1113

18 hrs
Spring
PHYS 2211L Physics I Lab (1) Conc w/2211
Core B2 COMM 1100 (Recommended) (3)
SURV 2221 Surveying I (4)
CHEM 1211L Chemistry I Lab (1) Conc w/1211
CHEM 1212 Chemistry II (3)

17 hrs
Fall
Sophomore
ENVS 2202 Env Science eCore/BIOI 1107 Biol Princ I (3)
Core B1 ECON 1000 Contemporary Economic Issues (2)
ENGR 3324 Project Cost Analysis (3)
ENGR 3131 Strength of Materials (3)
ENGR 3214 Statics (3)
PHYS 2212L Physics II Lab (1) Conc w/3131
PHYS 2212 Physics II (3)

16 hrs
Spring
ENGR 2214 Fluid Mechanics (3)
ENGR 3345 Fluid Mechanics Lab (1) Conc w/3345
PHYS 2212L Physics II Lab (1) Conc w/2212
CE 2003 Engineering Problem Solving (3)

17 hrs
Fall
Junior
Core E1 POLS 1101 (3)
ENGR 3704 Intro Env Engr Lab (1) Conc w/3702 or prior completion of CE 3702
CE 3702 Intro Env Engr (3)

16 hrs
Spring
Core E2 (3)
CE 3501 Materials for Civil/Const Engr (3)
ENGR 3708 Geotechnical Lab (1) Conc w/3701
CE 3701 Geotechnical Engineering (3)
ENGR 3305 Data Collection and Analysis (PreReq Math 2202) (3)

16 hrs
Fall
Senior
Core E3 (3)
CE 3502 Materials for Civil/Const Engr Lab (1) Conc w/3501
CE 3704 Intro Env Engr Lab (1) Conc w/3702 or prior completion of CE 3702

15 hrs
Spring
Core E4 STS 1101 (Recommended) (3)
CE 4179 Transp Lab (1) Conc w/4177
SURV 4470 Land Development (3) PreReq SURV 2221
CE 4177 Transportation Engr (3)
CE xxxx Elective (3)

CE ELECTIVE COURSES (12 hr)
Select two courses from CE Discipline Groups 1 to 3, but not more than one from each CE Discipline Group 1–4. 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 Discipline Group 3: Transportation Engineering
CE 4176 Highway Design and Construction
CE 4706 Pavement Engineering
CE Discipline Group 4: Water Resource Engineering
CE 3396 Internship
CE 4103 Design of Steel Structures
CE 4707 Design of Wood Structures
CE 4704 Hydraulic Analysis and Design
CM 3040 Building Info. Modeling Applications
Upper Division Surv/GIS

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