Water Resources and Environmental Engineering Option in the Civil Engineering Graduate Program

Current Curriculum (AY 2013-14)

Plan A *(Thesis)* ***Units***

a. Core: CE 210, 240, 241, and 242 ……. 12
b. 200-series: Select from CE 206, 245, 246A, 246B, 247, and 290 ……....0-6
c. 100-series: Select from CE 140, 141, 144, or 146[1] ……..... 0-6 } (Max. 6 units of 100-series)
d. 100 or 200-series outside of the department[2]:…… ……..……..6 } (Max. 6 units of 100-series)
e. Thesis …….....6
Total …….. 30

Plan B *(Project)* ***Units***

a. Core: CE 210, 240, 241, and 242 ……12
b. 200-series: Select from CE 206, 245, 246A, 246B, 247, and 290 ……3-9
c. 100-series: Select from CE 140, 141, 144, or 146[1] ……..... 0-6 } (Max. 6 units of100-series)
d. 100 or 200-series outside of the department[2]:…… ……..……..... 6 } (Max. 6 units of100-series)
e. Project ……....3
Total …….. 30

Plan C *(Comprehensive Exam)* ***Units***

a. Core: CE 210, 240, 241, and 242 ……..12
b. 200-series: Select from CE 206, 245, 246A, 246B, 247, and 290 ……6-12
c. 100-series: Select from CE 140, 141, 144, or 146[1] ……..... 0-6 } (Max. 6 units of 100-series)
d. 100 or 200-series outside of the department[2]:…… ……..……...6 } (Max. 6 units of 100-series)
e. Comprehensive Exam……. .0
Total …….. 30

Notes: 1. Select up to a total of 6 units of 100-series courses excluding courses previously taken and counted towards another degree.
2. Select one approved course in (a) business or public administration and (b) another field that supports professional practice in the WR&EE option area. Example subject areas include geochemistry, hydro geochemistry, agricultural water use, water rights, water policy, GIS, statistics, microbiology, and biochemistry.

200-Series Course Titles

CE 206 Engineering Environmental Impact
CE 210 Research Methods
CE 240 Engineering Hydrology
CE 241 Contaminant Fate & Transport Engineering (Proposed in AY 2012-13)
CE 242 Urban and Industrial Water Systems (Proposed in AY 2012-13)
CE 245 Geoenvironmental Engineering
CE 246A Advanced Water Quality (chemical, physical processes)
CE 246B Advanced Water Quality (biological processes)
CE 247 Solid Waste Engineering
CE 290 Independent Study (Max. 6 units)

100-Series Course Titles

CE 140 Hydrology
CE 141 Water Resources Engineering
CE 144 Design of Water Quality Control Processes
CE 146 Urban Stormwater Management

Additional courses planned (under development), e.g., Hydraulic Systems Optimization.