

CEE 4550 Course Description

CEE 4550 Sustainable Water Supply Project (3 cr.)

Fall and Spring

Instructor: M.L. Weber-Shirk

**Pre- or corequisite of CEE 4540 or (prerequisite of CEE 3310 with permission of instructor)
co-meeting with CEE 2550**

CEE 4550 is available to third and fourth-year undergraduates and graduate students, and can be used as a Major Approved Elective or as a Design Course. (CEE 255 cannot.) Students in CEE 4550 are expected to take on a larger leadership role than students in CEE 2550.

Student teams conduct research, build working models, design full scale prototypes, create design algorithms, and create educational materials for technology transfer to improve drinking water quality in Honduras.

Students are required to attend two 75-minute meetings per week that are used to present project information, organize teams, present reports, meet with the instructor, and work on the team project. Students also work with their team for approximately 7 hours per week outside of class.

The first two weeks of the course are spent defining tasks, organizing teams, and conducting training sessions. Students participate in problem definition, solution strategy, team formation, and task scheduling. Student teams write a project proposal early in the semester describing their approach to solving the research or design challenge. Teams present progress reports that are reviewed and amended and that evolve into the final report. Teams share their knowledge in a project wide symposium at mid semester and at an end of semester final presentation.