

# CEE 4540 Course Description

## CEE 4540 Small-Scale Sustainable Water Supplies (3 credits)

**Fall Only**

**Instructor: M.L. Weber-Shirk**

**Prerequisite CEE 3310 (Fluid Mechanics) or permission of instructor**

This course involves the design and analysis of small-scale systems that are appropriate for providing safe drinking water to the one billion underserved people. Students will work in teams to design sustainable supply and treatment systems. This will require an understanding of the major threats to public health as well as the constraints of implementing technologies in the Global South.

One of the goals of the course is to encourage creative thinking about solutions to the enormous challenge of providing everyone on the planet with safe drinking water. We will challenge the myth that this task can be accomplished by applying existing technologies and identify major technology gaps where better solutions are needed. Engineers are integral to challenge the existing assumptions and to create and document new sustainable solutions.

For more information, refer to [the CEE 4540 Course Website](#).