

**BEE 499 – FALL 2018**  
**SMALL AND ONSITE WATER TREATMENT SYSTEMS**

**ULTIMATE LEARNING OUTCOME**

*Create, specify* in detail (in writing and/or in drawings), and *justify* the specific design of an onsite water supply system and an onsite water treatment system based on, and consistent with, the conditions and constraints of a given site, the advantages, disadvantages, and functions of alternative system components, and water quality conditions and requirements



**INTERMEDIATE LEARNING OUTCOMES**

Identify important site characteristics and assess their impacts on both onsite water supply and treatment system options

Identify key water quality parameters and evaluate how they affect water supply and treatment system options

Identify key water supply and water treatment systems components and combine them to create a complete, functional system



**FOUNDATIONAL LEARNING OUTCOMES**

Recognize components typical to onsite water supply and water treatment systems and describe their purposes, functions, advantages

List water quality parameters that may adversely affect human health and/or the environment and explain why they may be important

Recall site characteristics that may affect design of onsite water/wastewater systems and describe why/how they may be important