

Disinfection

Module Perspective

1. What is the topic?
2. Who is (are) the audience(s)?
3. What is the course goal?
4. What are the learning objectives?
5. What are you trying to cover?
6. How do you plan to do this?

TOPIC: Disinfection for onsite and decentralized wastewater treatment and dispersal systems.

AUDIENCE: Senior-level and graduate environmental engineering and environmental science students. The students should have had a college-level chemistry course and have some exposure to microbiological processes and simple wastewater treatment processes

GOAL: The goal of this section is to teach students the methods, concepts and chemistry aspects of wastewater disinfection with particular attention to decentralized wastewater treatment and dispersal applications.

OBJECTIVES: After the course, the students will be able to select the appropriate disinfection system for a decentralized wastewater treatment system and compute dosage rates and contact time for chemical disinfection

COVERAGE: Wastewater disinfection including chlorination methods, ultraviolet light disinfection and ozonation

PLAN FOR COVERAGE: The coverage will include an instructors' guide with learning goals and notes, text material with question and answer sets and PowerPoint slides with notes explaining each slide as appropriate.