

## **Onsite Nitrogen Removal 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?

1. The topic of the module is nitrogen removal in onsite/decentralized wastewater systems.
2. The module is targeted to seniors and graduate students in Environmental Engineering and Science who have had courses in chemistry and microbiology and at least one course in wastewater treatment.
3. The goal of the course is to introduce the theory of nitrogen transformation processes in wastewater and nitrogen removal in onsite/decentralized wastewater treatment systems.
4. The learning objective is to give advanced students an introduction to the theory and concepts of onsite nitrogen removal so they will be better prepared to technically address these issues.
5. The topics covered include Environmental effects of nitrogen in the environment, biology and chemistry of nitrogen transformations, biological nitrification/denitrification in onsite wastewater treatment, and examples of onsite/decentralized nitrogen removal processes.
6. The course format includes text, numerous example problems, tables and figures.