

## **Spray Distribution Module**

### **Module Perspective**

#### **Listing**

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?

#### **Responses**

1. The topic for this course module is spray dispersal. Spray dispersal is a method for distributing effluent on the surface of the soil for final treatment and reuse of the effluent. The key considerations for effectively using this technology are presented.
2. The target audience includes upper division (junior and senior) undergraduates and graduate students from engineering and non-engineering disciplines.
3. The goal for this module is to provide students a basic understanding of how spray dispersal systems can effectively disperse wastewater into soils for final treatment and reuse of the effluent.
4. Upon completing this module, students will have:
  - a. A fundamental understanding of the components of a spray dispersal system,
  - b. A knowledge of how the components can be connected together to form a system
  - c. An understanding of how the components will interact together to form a functional wastewater treatment and dispersal system.
5. Topics included in this course module include:
  - a. Why use a spray dispersal system
  - b. Water quality requirements for using this dispersal technology
  - c. Function of the spray system components
  - d. Key spray system design considerations
  - e. Spray system installation considerations
  - f. Start-up considerations
  - g. Operational requirements
  - h. Maintenance issues.
6. This course module includes syllabus, text, lecture notes, example problems to be worked by the instructor, in-class problems to be worked by students, PowerPoint notes, and out-of-class problems.