

ECOLOGY OF WATERBORNE PATHOGENS
SOS 5308 section 3369
MWF 4th period



Sample schedule, lectures, notes, past exams and assignments are at:
<http://sospathogens.ifas.ufl.edu>

TOPICS:

- 1. Overview of Soil-, Water- and Foodborne Pathogens**
Fundamentals of Microbial Population Ecology
 - a. Cell-cell communication and Social Behaviors in microbes
 - b. Pathogens and biofilms
 - c. Properties of populations and metapopulations
 - d. Evolution of pathogens
- 2. Habitats where pathogens survive**
- 3. Techniques for Identifying and Studying Pathogens**
 - a. Culture-based
 - b. DNA, RNA-based
 - c. Immunological
- 4. Emerging and Re-emerging Pathogens**
- 5. Microbiological Water Quality**
 - a. Components of water quality
 - b. Indicator organisms
 - c. Waste water treatment
 - d. Microbial risk assessment

Questions? Contact: maxtep@ufl.edu