

ABIO 598A Microbial Ecology

INSTRUCTOR: Dr. Garriet W Smith; Rm 203 SBDG

Location: Rm 200; TTh 4:30-5:45

Text: Microbial Ecology and Infectious Disease ed. Eugene Rosenberg

Course Level and Credit: Senior-level 3hrs

Course Summary:

Ecological principals, as they apply to microorganisms, will be covered in this course, as well as, evolution, biochemical communication and other factors related to how microorganisms adjust and modify their environment. Examples of symbiosis and other evolutionary mechanisms will be considered in the contest of infectious disease.

Topic Sequence	Chapters
Microbial Evolution	21-24
Microbial Ecophysiology	1-3
Environmental Signals and Gene Expression	9-12
Microbial Colonization	4-8
Disease Examples	18-20
Human Pathogens	13-17

Grading: Students will be assigned two primary papers from the textbook for class presentation. This will count 20% of the final grade. Approximately six discussion tests will count 10% each and the final exam will count 20%.