New for Fall 2006
GRADUATE / UNDERGRADUATE
course offering

Disease Ecology and
Population Biology

Instructor: Dr. Charles Mitchell

Topics will include:
• Mathematical theory on host-pathogen interactions
• Empirical studies of human, wildlife, insect, and
  plant host populations
• Emerging infectious diseases
• Effects on host behavior
• Host-parasite coevolution
• Multi-host and multi-pathogen systems
• Anthropogenic effects

Structure
About 1/3 lectures, and 2/3 mix of:
• Discussion of primary literature articles
• Discussions with guest researchers*
• Student presentations
• Exercises with computer simulation models

*Students will also be encouraged to attend occasional seminars outside of class delivered by the guest researchers.

To enroll: While listed as Biol 490, the class will be taught at a level for students entering graduate school in ecology or related fields. Undergrads should be seniors or juniors who received an A in Bio 54 or have equivalent experience. Email qualifications to: mitchell@bio.unc.edu for permission to register.