

# MSE 2209: BIO:Challenges in Inf Diseases

Course examines global contemporary issues in infectious diseases, including epidemiology, microbiology, treatment and prevention. The biological as well as social, political and economic implications of emerging and re-emerging pathogens will be examined, including outbreaks and potential biological agents, vaccine safety and compliance, food safety concepts, and the global as well as domestic implications. The course is integrative and multidisciplinary, incorporating contributions from a wide range of specialties, including geography, history, mathematics/computer sciences and sociology. Lessons will be timely and driven by current infectious disease events, e.g., Ebola virus disease, Middle East Respiratory Virus Syndrome, seasonal and pandemic influenza, pertussis and measles, meningococcal disease and antibiotic resistance. Resources will include print and electronic media, in addition to the medical literature.

**Credits:** 4

**Program:** [Biology](#)