

# BIOL 133 Emerging Infectious Diseases

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## **BIOL 133 EMERGING INFECTIOUS DISEASES**

This course studies the major scientific principles behind historic and contemporary pandemics, including smallpox, tuberculosis, AIDS, Ebola, and COVID. It embraces interdisciplinary learning, blending microbiology, epidemiology, and public health. Students use scientific method and experimental methodology to investigate microbial pathogens and study how they interact with their hosts to cause disease. Complex challenges of the modern world, such as antimicrobial resistance, climate change, globalization, and urbanization, drive their emergence. Through systematic questioning, critical thinking, and assessment, students analyze global solutions for future pandemics, cultivating adaptability and resilience. *Letter Grade Only. Degree Credit.*

**Units:** 3

**Hours/semester:** 48-54 Lecture; 96-108 Homework

**Transfer Credit:** CSU, UC

