

Title: Seminar on Mathematical Biology

Course Description:

This course focuses on problems, methods, and recent developments in Mathematical Biology. Topics will include infectious-disease modeling, biochemical reaction networks, neural codes, and other topics of interest to students in the course.

This aim of this course is for students to become familiar with mathematical modeling for applications in the life sciences. Upon successful completion of this course, students will be able to (1) formulate, analyze, and simulate mathematical models arising from applications in ecology, biology, and medicine, (2) read and critically assess research papers in mathematical biology, and (3) communicate effectively about the mathematical and scientific topics in the class.

Average Time Dedicated Per Week: 2-4 hours