COURSE DETAIL

BIOMATHEMATICS
Country Sweden
Host Institution Lund University
Program(s) Lund University
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Mathematics Biological Sciences
UCEAP Course Number 157
UCEAP Course Suffix
UCEAP Official Title BIOMATHEMATICS
UCEAP Transcript Title BIOMATHEMATICS
UCEAP Quarter Units 6.00
UCEAP Semester Units 4.00

Course Description

This course provides a basic introduction to mathematical theory and methods in biology, with enough scope to enable the student to handle biologically phrased problems. Topics covered include population models with discrete or continuous time, pharmacokinetics and -dynamics, qualitative analysis of systems of differential equations, modelling of the spread of infectious diseases, bifurcations, limit cycles, and excitable media with applications to, e.g., predator-prey models, spatial methods with application to diffusion, and nerve conduction.

Language(s) of Instruction
English

Host Institution Course Number
FMAN01

Host Institution Course Title
BIOMATHEMATICS

Host Institution Campus
Lund

Host Institution Faculty
Engineering

Host Institution Degree

Host Institution Department

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