COURSE DETAIL

BIOLOGICAL MODELLING
Country Sweden
Host Institution Lund University
Program(s) Lund University
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Biological Sciences
UCEAP Course Number 124
UCEAP Course Suffix
UCEAP Official Title BIOLOGICAL MODELLING
UCEAP Transcript Title BIOLOGICAL MODELLNG
UCEAP Quarter Units 3.00
UCEAP Semester Units 2.00

Course Description
The course introduces common modelling and computational methods in biology. Topics include but are not limited to: introduction to cell chemistry and structure, meiosis, inheritance, chromosomes, genetics calculations, genetic algorithms, cellular automata, regulation of genes, gene expression, bioinformatics, artificial neural networks, population ecology, and game theory. The course consists of various modelling projects and each one of these is introduced in one to two preparatory lectures. The introductory lectures are followed by a modelling exercise, in most cases a computer exercise. The programming language that is used is MATLAB, meaning that some knowledge of this software is useful.

Language(s) of Instruction
English

Host Institution Course Number
EXTG11

Host Institution Course Title
BIOLOGICAL MODELLING

Host Institution Course Details
https://kurser.lth.se/kursplaner/19_20%20eng/EXTG11.html

Host Institution Campus
Engineering

Host Institution Faculty

Host Institution Degree

Host Institution Department
Engineering- Biology

Course Last Reviewed
2020-2021

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