COURSE DETAIL

PHARMACEUTICAL MODELING
Country Denmark
Host Institution University of Copenhagen
Program(s) University of Copenhagen
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Statistics Health Sciences
UCEAP Course Number 111
UCEAP Course Suffix
UCEAP Official Title PHARMACEUTICAL MODELING
UCEAP Transcript Title PHARMACEUTICL MODEL
UCEAP Quarter Units 6.00
UCEAP Semester Units 4.00

Course Description

This course introduces the fundamental principles behind methods in pharmaceutical modeling and provides hands-on experience with methods used in academia and industry. It focuses on mathematical models and computer programming for a quantitative understanding of diverse pharmaceutically relevant problems. This includes models at different scales, both for molecular and particle level properties, interactions between molecules and particles, and their interactions with the organism. The course uses practical examples to provide the theory behind methods used for pharmaceutical modeling and simulation of system behavior. It begins with a introduction and refresher of fundamental mathematical tools, then applies and modifies computer scripts that model the pharmaceutical systems, and discusses these models in relation to the literature.

Language(s) of Instruction
English

Host Institution Course Number
SFAB21002U

Host Institution Course Title
PHARMACEUTICAL MODELING

Host Institution Campus

Host Institution Faculty
Faculty of Health and Medical Sciences

Host Institution Degree
Bachelor

Host Institution Department
Department of Pharmacy

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