

COURSE DETAIL

COMPUTATIONAL PHYSICS

Country

Norway

Host Institution

University of Oslo

Program(s)

University of Oslo

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Physics

UCEAP Course Number

135

UCEAP Course Suffix**UCEAP Official Title**

COMPUTATIONAL PHYSICS

UCEAP Transcript Title

COMPUTATIONAL PHYS

UCEAP Quarter Units

8.00

UCEAP Semester Units

5.30

Course Description

This course provides an introduction to numerical methods for solving problems in physics and chemistry, including methods for solving ordinary and partial differential equations, matrix operations and eigenvalue problems, numerical integration, Monte Carlo methods, and modeling. The course also covers a short and hands-on introduction to programming in C++ and version control with git, and provides training in how to write a scientific report.

Language(s) of Instruction

English

Host Institution Course Number

FYS3150

Host Institution Course Title

COMPUTATIONAL PHYSICS

Host Institution Course Details

<https://www.uio.no/studier/emner/matnat/fys/FYS3150/index-eng.html>

Host Institution Campus

Host Institution Faculty

Mathematics and Natural Sciences

Host Institution Degree

Host Institution Department

Physics

Course Last Reviewed

2023-2024

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