

## COURSE DETAIL

### ATOMIC AND MOLECULAR PHYSICS

**Country**

Sweden

**Host Institution**

Lund University

**Program(s)**

Lund University

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Physics

**UCEAP Course Number**

148

**UCEAP Course Suffix****UCEAP Official Title**

ATOMIC AND MOLECULAR PHYSICS

**UCEAP Transcript Title**

ATOMIC&MOLECLR PHYS

**UCEAP Quarter Units**

6.00

**UCEAP Semester Units**

4.00

## Course Description

This course gives students fundamental knowledge of the structure of atoms and molecules and their interactions with electromagnetic radiation. The course illustrates the role of quantum mechanics as the fundamental theory for the description of the microscopic world. In the experimental part of the course, students work with modern spectroscopic techniques. The course highlights that atomic physics is a very large, active, and wide research area in Lund. Students train their problem-solving skills and their ability to write scientific reports.

## Language(s) of Instruction

English

## Host Institution Course Number

FYSC11

## Host Institution Course Title

ATOMIC AND MOLECULAR PHYSICS

## Host Institution Campus

Science

## Host Institution Faculty

## Host Institution Degree

## Host Institution Department

Physics

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