

## COURSE DETAIL

### THEORETICAL PARTICLE PHYSICS

**Country**

Sweden

**Host Institution**

Lund University

**Program(s)**

Lund University

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Physics

**UCEAP Course Number**

167

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

THEORETICAL PARTICLE PHYSICS

**UCEAP Transcript Title**

THEOR PART PHYSICS

**UCEAP Quarter Units**

6.00

**UCEAP Semester Units**

4.00

## Course Description

This course covers the theoretical foundations of the standard model of particle physics and its possible extensions. Among topics covered are the building blocks of the standard model, strong and electroweak interactions, CP violation, neutrino oscillations, and grand unification and supersymmetry.

## Language(s) of Instruction

English

## Host Institution Course Number

FYTN18

## Host Institution Course Title

THEORETICAL PARTICLE PHYSICS

## Host Institution Campus

Lund

## Host Institution Faculty

Science

## Host Institution Degree

## Host Institution Department

Physics

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