

# 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 Course Details**

<https://www.lunduniversity.lu.se/lubas/i-uoh-lu-FYTN18>

## **Host Institution Campus**

Lund

## **Host Institution Faculty**

Science

## **Host Institution Degree**

## **Host Institution Department**

Physics

## **Course Last Reviewed**

2024-2025

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