

# COURSE DETAIL

## MATHEMATICAL METHODS OF PHYSICS

**Country**

Sweden

**Host Institution**

Lund University

**Program(s)**

Lund University

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Physics Mathematics

**UCEAP Course Number**

163

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

MATHEMATICAL METHODS OF PHYSICS

**UCEAP Transcript Title**

MATH MTHDS PHYSICS

**UCEAP Quarter Units**

6.00

**UCEAP Semester Units**

4.00

## **Course Description**

This course covers analytic functions, special functions (gamma function, Bessel functions, Legendre polynomials and spherical harmonics), Fourier series and Fourier transforms, Laplace transforms, Ordinary differential equations, partial differential equations, and green functions.

## **Language(s) of Instruction**

English

## **Host Institution Course Number**

FYSN31

## **Host Institution Course Title**

MATHEMATICAL METHODS OF PHYSICS

## **Host Institution Course Details**

<https://www.lunduniversity.lu.se/lubas/i-uoh-lu-FYSN31>

## **Host Institution Campus**

Lund

## **Host Institution Faculty**

Science

## **Host Institution Degree**

## **Host Institution Department**

## **Course Last Reviewed**

2025-2026

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