

# COURSE DETAIL

## GRAPHS AND GROUPS

**Country**

Denmark

**Host Institution**

University of Copenhagen

**Program(s)**

University of Copenhagen

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Mathematics

**UCEAP Course Number**

130

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

GRAPHS AND GROUPS

**UCEAP Transcript Title**

GRAPHS AND GROUPS

**UCEAP Quarter Units**

6.00

**UCEAP Semester Units**

4.00

## Course Description

This course covers a number of fundamental topics concerning groups of graph automorphisms, with an emphasis on group-theoretic notions and results. Topics include fundamentals of graph theory and of group theory; graph automorphisms, transitive graphs; group actions on graphs; Cayley graphs, Schreier graphs; fundamental group of a graph, coverings; free group: definition, elementary properties; subgroups of free groups; and Hanna Neumann conjecture.

## Language(s) of Instruction

English

## Host Institution Course Number

NMAK23004U

## Host Institution Course Title

GRAPHS AND GROUPS

## Host Institution Course Details

<https://kurser.ku.dk/course/nmak23004u/2023-2024>

## Host Institution Campus

## Host Institution Faculty

Science

## Host Institution Degree

Master

## Host Institution Department

Mathematical Sciences

## Course Last Reviewed

2023-2024

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