COURSE DETAIL

ANALYSIS AND ALGEBRA
Country Netherlands
Host Institution Utrecht University – University College Utrecht
Program(s) University College Utrecht
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Mathematics
UCEAP Course Number 109
UCEAP Course Suffix
UCEAP Official Title ANALYSIS AND ALGEBRA
UCEAP Transcript Title ANALYSIS AND ALGEBR
UCEAP Quarter Units 6.00
UCEAP Semester Units 4.00

Course Description

The course covers two or three of the following main topics: Dynamical systems, Group Theory, or Complex Analysts. Dynamical systems include ordinary differential equations, phase plane analysis, stability analysis, linearization, limit cycles, Poincaré-Benedixson Theorem. Group theory is a natural setting in which to learn styles of proof-writing and abstract thought characteristic of much of modern mathematics. Complex analysis includes the calculus of complex-valued functions and power series, geometric properties of analytic functions, the Cauchy-Riemann equations, topological properties of integration in the complex plane, Cauchy's Theorem, Cauchy's Formula. Which of the above topics are covered may vary from year to year. This course replaces the former Math labs UCSCIMATL5, UCSCIMATL3, and UCSCIMATL6.

Language(s) of Instruction
English

Host Institution Course Number
UCSCIMAT23

Host Institution Course Title
ANALYSIS AND ALGEBRA

Host Institution Course Details
https://cursusplanner.uu.nl/Curriculum

Host Institution Campus
University College Utrecht

Host Institution Faculty
Science

Host Institution Degree

Host Institution Department
Math

Course Last Reviewed
2024-2025

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