

# COURSE DETAIL

## CALCULUS

**Country**

Netherlands

**Host Institution**

Maastricht University - University College Maastricht

**Program(s)**

University College Maastricht

**UCEAP Course Level**

Lower Division

**UCEAP Subject Area(s)**

Mathematics

**UCEAP Course Number**

12

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

CALCULUS

**UCEAP Transcript Title**

CALCULUS

**UCEAP Quarter Units**

6.00

**UCEAP Semester Units**

4.00

## Course Description

This course provides an introduction to calculus. Emphasis is on an understanding of the basic concepts and techniques, and on developing the practical, computational skills to solve problems from a wide range of application areas. This course illustrates the methods learned by looking at real problems from different fields where these techniques can be applied and through this applied lens all students explore new facets of calculus and deepen their knowledge. The course discusses: functions, limits, and continuity; derivatives; rules of differentiation; maxima and minima; implicit differentiation and rates Integration; definite integrals; applications of integration; improper integrals; differential equations. Prerequisites for this course include substantial high school experience in Mathematics.

## Language(s) of Instruction

English

## Host Institution Course Number

SCI2018

## Host Institution Course Title

CALCULUS

## Host Institution Campus

University College Maastricht

## Host Institution Faculty

## Host Institution Degree

## Host Institution Department

Sciences

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