

Course Descriptions Bachelor 2020-2021

Course Title Analysis I
 Course Code EBC1016
 ECTS Credits 6,5
 Assessment Whole/Half Grades

Period	Start	End	Mon	Tue	Wed	Thu	Fri
1	31-8-2020	16-10-2020			L		X
2	26-10-2020	11-12-2020			L		X

Level Introductory

Coordinator Hans de Graaff For more information: h.degraaff@maastrichtuniversity.nl

Language of instruction English

Goals Learn the concepts and techniques in the field of differential calculus that are prerequisite for 'probability theory', '(applied) statistics', 'mathematical economics' and 'operations research'.
 Obtain the right attitude with respect to (abstract) mathematics.
 Learn to write down a correct mathematical reasoning.
 Learn to give (simple) proofs.

Description PLEASE NOTE THAT THE INFORMATION ABOUT THE TEACHING AND ASSESSMENT METHOD(S) USED IN THIS COURSE IS WITH RESERVATION. THE INFORMATION PROVIDED HERE IS BASED ON THE COURSE SETUP PRIOR TO THE CORONAVIRUS CRISIS. AS A CONSEQUENCE OF THE CRISIS, COURSE COORDINATORS MAY BE FORCED TO CHANGE THE TEACHING AND ASSESSMENT METHODS USED. THE MOST UP-TO-DATE INFORMATION ABOUT THE TEACHING/ASSESSMENT METHOD(S) WILL BE AVAILABLE IN THE COURSE SYLLABUS.
 Logic and mathematical reasoning, sequences, differential calculus of functions of one variable.

Literature Syllabus.

Prerequisites

- Perform basic arithmetic operations and simplify algebraic expressions.
- Perform basic arithmetic operations with fractions.
- Solve simple (in)equalities.
- Manipulate exponentials and logs.
- Recognise the main characteristics of the graph of a function.
- Apply the arithmetic rules for differentiating functions.
- Optimize a function of one variable.
- Evaluate elementary integrals.

Teaching methods Lecture / Assignment

Assessment methods Participation / Written Exam

Evaluation in previous academic year For the complete evaluation of this course please click <http://iwio-sbe.maastrichtuniversity.nl/rapporten.asp?referrer=codeUM>

This course belongs to the following programme / specialisation

Bachelor Econometrics and Operations Research Year 1 Compulsory Course(s)