Course Descriptions Bachelor 2023-2024

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

Period

Period	Start	End	Mon	Tue	Wed	Thu	Fri
1	4-9-2023	20-10-2023			L		X
2	30-10-2023	15-12-2023			L		X

Level	Introductory
Coordinator	Anna Zseleva For more information:anna.zseleva@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	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)