

# Mathématiques : analyse

## Lecturers

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## Course mnemonic

MATH-S1021

## ECTS credits

5 credits

## Language(s) of instruction

French

## Course period

First term

## Campus

Solbosch

## References, bibliography and recommended reading

No specific readings are recommended. Further references are provided in the course notes.

## Course notes

Syllabus and Université virtuelle

## Other information

### Place(s) of teaching

Solbosch

### Contact(s)

Christel Bouquiaux <Christel.Bouquiaux@ulb.be>

Germain Van Bever <Germain.Van.Bever@ulb.be>

## Course content

Basic notions, sequences and series, topology in  $\mathbb{R}$ , limits of functions, continuous functions, derivatives, convexity/concavity

## Objectives (and/or specific learning outcomes)

After the end of the course, students will be able to:

- > identify the methods that can solve a given mathematical problem
- > use mathematical tools to think in a logical way
- > solve complex problems and showing creativity

## Pre-requisites and co-requisites

### Course having this one as pre-requisit

MATH-S202 | Mathématiques : séries et fonctions à plusieurs variables | 5 crédits

## Teaching method and learning activities

Theoretical lessons

Exercise sessions

## Evaluation method(s)

written examination

### Evaluation method(s) (additional information)

A written exam is organized in January. It is possible to take this exam again in May/June, in which case the new grade replaces the old one. Another written exam is organized in August/September.

### Determination of the mark (including the weighting of partial marks)

The grade for the première session is the one obtained at the exam in January, unless one takes the exam in May/June, in which case the grade for the première session is the one obtained in the latter exam. If the credit for the course is not obtained in the première session, then the exam in August/September must be taken. The grade for the seconde session is the one obtained at this last exam.

### Main language(s) of evaluation

French

## Programmes

Programmes proposing this course at the Solvay Brussels School of Economics and Management

BA-INGE | Bachelor in Business engineering | unit 1