

# Mathématique : complément d'analyse et algèbre linéaire

## Lecturers

Denis BONHEURE (Coordinator) and Nathan UYTENDAELE

## Course mnemonic

MATH-S1022

## ECTS credits

5 credits

## Language(s) of instruction

French

## Course period

Second term

## Campus

Solbosch

## Course content

Integrals, complex numbers, differential equations, vectorial spaces, matrix computations, linear systems, linear maps, eigenvectors, eigenvalues and diagonalization

## 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

## 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)

Nathan Uyttendaele <Nathan.Uyttendaele@ulb.ac.be>

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## Evaluation method(s)

written examination

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

A written exam is organized in May/June, then another one is organized in August/September (these exams will take place on campus, unless sanitary conditions lead to changes in the organization of the evaluations)

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

The grade for the première session is the one obtained at the exam in May/June. 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 second 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