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## Introduction

### Introduction

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## Teaching profile

### Learning outcomes

The aim of the minor in mathematics is to provide additional training in mathematics to bachelor students whose core program includes a substantial introduction to this domain and who could envisage studying for a master's in mathematical science.

### Detailed programme

#### PROGRAMME BY SUBJECT

La liste des cours accessibles pour la mineure en mathématique comprend les cours ci-dessous. Ces cours peuvent être répartis entre les deuxième et troisième années de bachelier, en respectant les différents prérequis. Cette liste peut être complétée par d'autres cours en accord avec le conseiller aux études.

○ Mandatory

△ Courses not taught during 2014-2015

⊕ Periodic courses taught during 2014-2015

⊗ Optional

⊖ Periodic courses not taught during 2014-2015

⊞ Two years course

Click on the course title to see detailed informations (objectives, methods, evaluation...)

Year

2 3

#### ○ Tronc commun

Les cours LMAT1231 et LMATH1241 sont obligatoires. L'étudiant choisira au moins un cours parmi LMAT1221 et LMAT1222.

○ LMAT1231	Multilinear algebra and group theory	Marino Gran	30h+30h	6 Credits	2q	x	x
○ LMAT1241	Geometry II	Pierre Bieliavsky	45h+15h	6 Credits	1q	x	x
⊗ LMAT1221	Mathematical analysis 3	Augusto Ponce, Jean Van Schaftingen	45h+45h	9 Credits	1q	x	x
⊗ LMAT1222	Complex analysis	Luc Haine	30h+15h	5 Credits	2q	x	x

#### ○ Cours au choix

L'étudiant complétera son programme par des cours choisis dans la liste ci-dessous, de façon à totaliser un minimum de 30 crédits.

⊗ LMAT1223	Differential equations	Jean Van Schaftingen	30h+15h	5 Credits	2q	x	x
⊗ LMAT1261	Mécanique analytique 2	Christian Hagendorf, Luc Haine	22.5h +30h	5 Credits	1q	x	x
⊗ LMAT1323	Topology	Yves Félix	22.5h +15h	4 Credits	1q	x	x
⊗ LMAT1321	Functional analysis and partial differential equations	Michel Willem	45h+45h	7 Credits	1q	x	x
⊗ LMAT1331	Commutative algebra	Jean-Pierre Tignol	45h	4 Credits	2q	x	x
⊗ LMAT2110	Eléments de géométrie différentielle	Luc Haine	30h+30h	5 Credits	1q	x	x
⊗ LPHY1221	Group theory	Philippe Ruelle	22.5h +15h	5 Credits	2q	x	x

## Information

### Liste des bacheliers proposant cette mineure

- > Bachelor in Physics [en-prog-2014-phys1ba]
- > Bachelor in Engineering [en-prog-2014-fsa1ba]
- > Bachelor in Economics and Management [en-prog-2014-ecge1ba]

### Admission

The course is intended for all students who hold a baccalaureate in management engineering, engineering science - civil engineering elective, in engineering science - architectural civil engineer elective, in economic and management sciences, in IT science and physical science.

### Teaching method

### Evaluation

The evaluation methods comply with the [regulations concerning studies and exams](#). More detailed explanation of the modalities specific to each learning unit are available on their description sheets under the heading "Learning outcomes evaluation method".

### Possible trainings at the end of the programme

Majors-minors which offer direct access to the master(s): Students with baccalaureates in physical science or engineering science, civil engineering elective or architectural civil engineering elective, will be admitted to the master's in mathematical science, possibly with a program adapted to suit their needs. Any student who is considering this possibility is asked to make contact as soon as possible with the conseiller aux études (course adviser) for the department of mathematics.

### Contacts

### Curriculum Management

Entite de la structure MATH

Acronyme	<b>MATH</b>
Dénomination	Ecole de mathématique
Adresse	Chemin du Cyclotron, 2 bte L7.01.02 1348 Louvain-la-Neuve Tél 010 47 31 52 - Fax 010 47 25 30
Site web	<a href="https://www.uclouvain.be/math">https://www.uclouvain.be/math</a>
Secteur	Secteur des sciences et technologies (SST)
Faculté	Faculté des sciences (SC)
Commission de programme	Ecole de mathématique (MATH)

### Jury

## Usefull Contacts

Conseiller aux études : **Pierre Bieliavsky**

Secrétaire de l'Ecole de mathématique : **Roseline Van Dyck**

## Infos

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