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## Introduction

### Introduction

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## Teaching profile

### Learning outcomes

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The main objective of the "polytechnic" minors organized by the Faculté des Sciences Appliquées is for a student taking the engineering science baccalaureate, should s/he so wish, to acquire, via a major/minor polytechnic combination, basic training in two specialist areas of engineering science, and thus to broaden his/her range of technical skills, or to prepare for a master's in engineering science which spans the basic courses offered at baccalaureate level. .

The multidisciplinary objective of the minor in construction are to allow the student to acquire the majority of basic concepts in the discipline, in particular:

- Familiarizing him/herself with the theoretical bases of each discipline (construction, mechanical solids, hydraulics, soil mechanics), at the very least those which are vital to follow the master's course.
- Familiarizing him/herself with the basic tools (modélisation, IT, experimental techniques, etc).
- Mastering simple applications. The student must gain initial practical experience over the course of his/her baccalaureate studies through practical work and basic projects.
- Taking a critical approach to the most complex applications and methods which will be revisited on the master's course.
- Developing analytical, critical and communication skills.

On successful completion of this programme, each student is able to :

- Connaître les fondements théoriques de chaque discipline (construction, mécanique des solides, hydraulique, mécanique des sols), du moins ceux qui sont indispensables pour suivre les cours de master.
- Se familiariser avec les outils de base (modélisation, informatique, techniques expérimentales,...)
- Maîtriser parfaitement les applications simples de la construction.

## Detailed programme

### PROGRAMME BY SUBJECT

- Mandatory  
 △ Courses not taught during 2019-2020  
 ⊕ Periodic courses taught during 2019-2020
- ✘ Optional  
 ⊖ Periodic courses not taught during 2019-2020  
 ■ Activity with requisites

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

Year

2 3

#### o Contenu:

##### o Contenu de la mineure

● LGCIV1022	Mechanics of structures	Pierre Latteur	30h+30h	5 Credits	2q	x	
● LGCIV1031	STRUCTURAL MATERIALS AND GEOMATERIALS	Bertrand François Pierre Gérard João Saraiva Esteves Pacheco De Almeida	30h+30h	5 Credits	2q	x	
● LGCIV1072	Soil mechanics	Henri de Chaunac de Lanzac de Montlogis	30h+30h	5 Credits	1q		x
● LGCIV1023	Construction stability	João Saraiva Esteves Pacheco De Almeida	30h+30h	5 Credits	1q		x
● LGCIV1051	Hydraulic	Sandra Soares Frazao	30h+30h	5 Credits	2q		x
● LGCIV1032B	Structures en béton armé	Jean-François Cap	30h+30h	5 Credits	2q △	x	x

### COURSE PREREQUISITES

A document entitled (nb: [not available](#) for this programme Igce100i) specifies the activities (course units - CU) with one or more pre-requisite(s) within the study programme, that is the CU whose learning outcomes must have been certified and for which the credits must have been granted by the jury before the student is authorised to sign up for that activity.

These activities are identified in the study programme: their title is followed by a yellow square.

As the prerequisites are a requirement of enrolment, there are none within a year of a course.

The prerequisites are defined for the CUs for different years and therefore influence the order in which the student can enrol in the programme's CUs.

In addition, when the panel validates a student's individual programme at the beginning of the year, it ensures the consistency of the individual programme:

- It can change a prerequisite into a corequisite within a single year (to allow studies to be continued with an adequate annual load);
- It can require the student to combine enrolment in two separate CUs it considers necessary for educational purposes.

For more information, please consult [regulation of studies and exams](https://uclouvain.be/fr/decouvrir/rgee.html) (<https://uclouvain.be/fr/decouvrir/rgee.html>).

### THE PROGRAMME'S COURSES AND LEARNING OUTCOMES

For each UCLouvain training programme, a [reference framework of learning outcomes](#) specifies the competences expected of every graduate on completion of the programme. You can see the contribution of each teaching unit to the programme's reference framework of learning outcomes in the document "*In which teaching units are the competences and learning outcomes in the programme's reference framework developed and mastered by the student?*"

## Information

### Liste des bacheliers proposant cette mineure

> Bachelor in Engineering [en-prog-2019-fsa1ba]

## Admission

### Specific Admission Requirements

This polytechnic minor is essentially intended for students enrolled on the engineering science baccalaureate (civil engineering and architectural civil engineering).

The minor is also accessible to students enrolled on the baccalaureates in mathematical, physical or geographical science.

Minor activities must be taken in an order that respects the following requirements:

- MECA1901 must come before MECA1100
- AUCE 1151 must come before AUCE1152
- AUCE1172 must come before AUCE1173
- AUCE1111 must come before AUCE1801

## Evaluation

**The evaluation methods comply with the regulations concerning studies and exams (<https://uclouvain.be/fr/decouvrir/rgee.html>). 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

- For the minor in applied chemistry and physics: the master's in civil engineering in chemistry and material science and the master's in physicist-civil engineering.
- For the minor in construction: the master's in civil engineering in construction
- For the minor in electricity: the master's in electrician civil engineer
- For the minor in IT: the master's in IT civil engineer
- For the minor in mechanics: the master's in mechanic-civil engineer
- For the minor in applied mathematics: the master's in civil engineer in applied mathematics
- For a program which combines a major in electricity/minor in mechanics or major in mechanics/minor in electricity: the master's in electromechanical/civil engineering.

## Contacts

**Attention, you are currently reading an archived page: below contact informations were for program study 2019-2020 only. To get current contact informations please got to [current program study site](#).**

## Curriculum Management

Entity

Structure entity

SST/IMMC/GCE

Denomination

(GCE) (<https://uclouvain.be/repertoires/entites/gce>)

(IMMC) (<https://uclouvain.be/repertoires/entites/immc>)

Sector

Sciences and Technology (SST) (<https://uclouvain.be/repertoires/entites/sst>)

Acronym

GCE

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Academic supervisor: Sandra Soares Frazao

Useful Contact(s)

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