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MINGC - Introduction

Introduction

MINGC - Teaching profile

Learning outcomes

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 2020-2021

⊕ Periodic courses taught during 2020-2021

⊗ Optional

⊖ Periodic courses not taught during 2020-2021

■ Activity with requisites

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

Year

2 3

○ Content:

○ Contenu de la mineure

● LGCIV1022	Mechanics of structures	Pierre Latteur	30h+30h	5 Credits	q2	x	
● LGCIV1031	Structural Materials and Geomaterials	Hadrien Rattez João Saraiva Esteves Pacheco De Almeida	30h+30h	5 Credits	q2	x	
● LGCIV1072	Soil mechanics	Henri De Chaunac De Lanzac De Montlogis	30h+30h	5 Credits	q1		x
● LGCIV1023	Structural Analysis	João Saraiva Esteves Pacheco De Almeida	30h+30h	5 Credits	q1		x
● LGCIV1051	Hydraulic	Sandra Soares Frazao	30h+30h	5 Credits	q2		x
● LGCIV1032B	Structures en béton armé	Jean-François Cap	30h+30h	5 Credits	q2 △	x	x

COURSE PREREQUISITES

There are no prerequisites between course units (CUs) for this programme, i.e. the programme activity (course unit, CU) whose learning outcomes are to be certified and the corresponding credits awarded by the jury before registration in another CU.

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?"*

MINGC - Information

Access Requirements

Specific access 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

Curriculum Management

Entity

Structure entity

Denomination

(IMMC)

Sector

Acronym

Postal address

SST/IMMC/GCE

(GCE)

Sciences and Technology (SST)

GCE

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Useful Contact(s)

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