



ARCH1BA

2024 - 2025

## ARCH1BA - Introduction

### Introduction

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## ARCH1BA - Teaching profile

### Learning outcomes

L'étudiant bachelier ingénieur civil, orientation ingénieur civil architecte, se prépare, par l'acquisition et le développement de connaissances et de compétences, à l'étude et à l'établissement de tout projet d'édification.

Le programme permet à l'étudiant de se constituer un socle de connaissances et de compétences en sciences fondamentales, polytechniques et humaines, et de se former à l'architecture à travers une exposition continue au projet d'architecture et aux disciplines qui en développent l'analyse critique. La conduite de projet, seule ou en équipe, et ses exigences de communication favorisent l'acquisition de compétences transversales.

La faculté d'architecture, d'ingénierie architecturale, d'urbanisme entend former les bacheliers ingénieurs civils architectes dans la triple articulation de l'ingénierie, de l'architecture et de la responsabilité du bien public. Les trois termes de cette articulation s'exercent spécifiquement et s'enrichissent mutuellement.

Au terme de son bachelier, l'étudiant pourra aborder son master ingénieur civil architecte où il développera sa formation en architecture en y associant des connaissances plus appliquées et des compétences plus approfondies.

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

## ARCH1BA Programme

### Detailed programme by subject

- Mandatory
- ⊗ Optional
- △ Not offered in 2024-2025
- ⊖ Not offered in 2024-2025 but offered the following year
- ⊕ Offered in 2024-2025 but not the following year
- △ ⊕ Not offered in 2024-2025 or the following year
- Activity with requisites
- ⊕ Open to incoming exchange students
- ⊖ Not open to incoming exchange students
- (FR) Teaching language (FR, EN, ES, NL, DE, ...)

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

Year

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o **Professional Engineering Sciences: Civil Engineer Architect (180 credits)**

o **Teaching units attached to basic scientific training. (43 credits)**

● LEPL1301	Chemistry and Physical chemistry 1	Sophie Demoustier Alain Jonas (compensates Francesco Contino) Bernard Nysten	(FR) [q2] [30h+30h] [5 Credits]	x
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Year



⌘ Other language courses

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## Course prerequisites

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The **table** below lists the activities (course units, or CUs) for which there are one or more prerequisites within the programme, i.e. the programme CU for which the learning outcomes must be certified and the corresponding credits awarded by the jury before registering for that CU.

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

### Prerequisites and student's annual programme

As the prerequisite is for CU registration purposes only, there are no prerequisites within a programme year. Prerequisites are defined between CUs of different years and therefore influence the order in which the student will be able to register for the programme's CUs.

In addition, when the jury validates a student's individual programme at the beginning of the year, it ensures its coherence, meaning that it may:

- require the student to combine registration in two separate CUs which it considers necessary from a pedagogical point of view.
- transform a prerequisite into a corequisite if the student is in the final year of a degree course.

For more information, please consult the [Academic Regulations and Procedures](#).

### # Prerequisites list

- LALLE1102** "Allemand niveau élémentaire 2e partie (A1 - A2)" has prerequisite(s) LALLE1101
- LALLE1101 - German beginner's level 1st part (0-A1)
- LALLE1300** "Allemand General – utilisateur indépendant – niveau seuil" has prerequisite(s) LALLE1102
- LALLE1102 - German beginner's level 2nd part (A1 - A2)
- LALLE1500** "Allemand General – utilisateur indépendant – niveau avancé" has prerequisite(s) LALLE1300
- LALLE1300 - General German – independent user – threshold
- LANGL1972** "Anglais II pour ingénieurs civils architectes" has prerequisite(s) LANGL1971
- LANGL1971 - English for civil engineer architects
- LESPA1301** "Espagnol niveau moyen 1e partie (A2 - B1.1)" has prerequisite(s) LESPA1101 ET LESPA1102
- LESPA1101 - Spanish beginner's level 1st part (0-A1)
  - LESPA1102 - Spanish (beginner's level) 2nd part (A1 - A2)
- LESPA1302** "Espagnol niveau moyen 2e partie (B1.1 - B1.2)" has prerequisite(s) LESPA1101 ET LESPA1102
- LESPA1101 - Spanish beginner's level 1st part (0-A1)
  - LESPA1102 - Spanish (beginner's level) 2nd part (A1 - A2)
- LNEER1500** "Interfac - Néerlandais général et académique - Niveau approfondi" has prerequisite(s) LNEER1300
- LNEER1300 - General and academic Dutch - intermediate level

## The programme's courses and learning outcomes

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For each UCLouvain training programme, a [reference framework of learning outcomes](#) specifies the skills expected of every graduate on completion of the programme. Course unit descriptions specify targeted learning outcomes, as well as the unit's contribution to reference framework of learning outcomes.

## Detailed programme per annual block

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### ARCH1BA - 1ST ANNUAL UNIT

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**o Program of the Bachelor of Engineering Sciences: Civil Engineer Architect**

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**o Teaching units attached to basic scientific training.**

<p>o LEPL1101</p>	<p>Algebra</p>	<p>François Glineur                  Raphaël                  Jungers (coord.)                  Estelle Massart                  Jean-François Remacle                  Michel Verleysen</p>	<p><b>Algebra</b></p>
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• **Language training.**

*A test is organised at the beginning of the annual unit 1 and two concerning the courses LANGL1971 and*

**ARCH1BA - 2ND ANNUAL UNIT**

- Mandatory
- ⊗ Optional
- △ Not offered in 2024-2025
- ⊖ Not offered in 2024-2025 but offered the following year
- ⊕ Offered in 2024-2025 but not the following year
- △ ⊕ Not offered in 2024-2025 or the following year
- Activity with requisites
- 🌐 Open to incoming exchange students
- 🚫 Not open to incoming exchange students
- [FR] Teaching language (FR, EN, ES, NL, DE, ...)

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

**o Program of the Bachelor of Engineering Sciences: Civil Engineer Architect****o Teaching units attached to basic scientific training.**

○ LEPL1301	Chemistry and Physical chemistry 1	Sophie Demoustier Alain Jonas (compensates Francesco Contino) Bernard Nysten	[FR] [q2] [30h +30h] [5 Credits] 🌐
○ LICAR1104	Computer science and numerical methods	David Vincent	[FR] [q1] [30h +30h] [5 Credits] 🌐
○ LEPL1203A	Physics III - Physics III - A	Jean-Christophe Charlier Jérôme Louveaux Claude Oestges	[FR] [q1] [20h +20h] [3 Credits] 🌐

**o Teaching units related to physical conditions**

○ LICAR1711	Advanced Statics	Paul Fisette	[FR] [q1] [15h +10h] [2 Credits] 🌐
○ LICAR1821	Sustainable Building 1: Construction and Performance	Sergio Altomonte Dorothee Stiernon Manuel Van Damme	[FR] [q1] [60h] [5 Credits] 🌐
○ LGCIV1031	Structural Materials and Geomaterials	Hadrien Rattez João Saraiva Esteves Pacheco De Alm	[FR] [q2] [30h +30h] [5 Credits] 🌐
○ LGCIV1022	Mechanics of structures	Pierre Latteur	[FR] [q2] [30h +30h] [5 Credits] 🌐

**o Teaching units related to cultural conditions**

○ LICAR1102	Cross-disciplinary Approaches to Architecture 2 : Philosophy and aesthetic	Pierre Cloquette	[FR] [q1] [0 cm 0 0 m 85.039001 0 1 8/F5 Aoquette
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● LARKE1554



## ARCH1BA - 3RD ANNUAL UNIT

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- Mandatory
- ✘ Optional
- △ Not offered in 2024-2025
- ⊖ Not offered in 2024-2025 but offered the following year
- ⊕ Offered in 2024-2025 but not the following year
- △ ⊕ Not offered in 2024-2025 or the following year
- Activity with requisites
- 🌐 Open to incoming exchange students
- 🌐 Not open to incoming exchange students
- (FR) Teaching language (FR, EN, ES, NL, DE, ...)

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

## o Program of the Bachelor of Engineering Sciences: Civil Engineer Architect

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### o Teaching units attached to basic scientific training.

● LICAR1111	Mathematical structures for spaces	
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### o Language training.

A test is organised at the beginning of the annual unit 1 and two concerning the courses LANGL1971 and LANGL1972. The student who passes the test is exempted from attending the corresponding course. He can either take the exam for this English course or replace it with other language courses. There is no test for the LANGL1973 course as it is compulsory for all. In the 180 credits of the bachelor programme, there are necessarily 6 language credits, 2 of which are ANGL1973.

#### o Cours d'anglais

o LANGL1973	English Communication Skills for Architecture and Engineering	Nevin Serbest (coord.)	EN [q2] [20h] [2 Credits]
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#### o Spanish Courses

o LESPA1500	Spanish Advanced level (B1.2 , B2.1)	Alicia Maria Tirado Fernandez (coord.)	ES [q1] [45h] [2 Credits]
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#### o German courses

o LALLE1500	General German – independent user – vantage	Virginie Godin (coord.)	DE [q1+q2] [90h] [2 Credits]
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- For any secondary school diploma **from a European Union country**, the admission request must contain the equivalence of your diploma or, at the very least, proof of the filing of the equivalence request with the Wallonia-Brussels Federation (French Community of Belgium). For any information relating to obtaining an equivalence, please refer to [the following site](#).
- For any secondary school diploma **from a country outside the European Union**, the admission application must contain the [equivalence of your diploma](#) issued by the Wallonia-Brussels Federation (French Community of Belgium). If you have a restrictive equivalence for the programme of your choice, in addition of it, you **must** have either the





