



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

1 2 3

o Program of the Bachelor of Engineering Sciences: Civil Engineer Architect (180 credits)

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

| | | |
|------------|------------------------------------|--|
| ● LEPL1301 | Chemistry and Physical chemistry 1 | |
|------------|------------------------------------|--|

| | | | | Year | | |
|-------------|--|--|---|------|---|---|
| | | | | 1 | 2 | 3 |
| ○ LICAR1104 | Computer science and numerical methods | David Vincent | PR [q1] [30h+30h] [5 Credits]  | | x | |
| ○ LICAR1111 | Mathematical structures for spaces | Martin Buisse Pedro Dos Santos Santana Forte Vaz | PR | | | |

Course prerequisites

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

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

ARCH1BA - 1ST 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.

| | | | |
|------------|-------------|--|---|
| ○ LEPL1101 | Algebra | François Glineur Raphaël Jungers (coord.) Estelle Massart Jean-François Remacle Michel Verleysen | PS [q1] [30h +30h] [5 Credits] 🌐 |
| ○ LEPL1102 | Analysis | François Glineur (coord.) Raphaël Jungers Jean-François Remacle Michel Verleysen | PS [q1] [30h +30h] [5 Credits] 🌐 |
| ○ LEPL1105 | Analysis II | François Glineur Laurent Jacques | PS [q2] [30h +30h] [5 Credits] 🌐 |
| ○ LEPL1201 | Physics I | Laurent Francis Dimitri Lederer Vincent Legat Thomas Pardoën | PS [q1] [30h +30h] [5 Credits] 🌐 |
| ○ LEPL1202 | Physics II | Paul Fiset Claude Oestges | PS [q2] [30h +30h] [5 Credits] 🌐 |

o Teaching units related to physical conditions

| | | |
|-------------|--|--|
| ○ LICAR1701 | Architectural Structures I: Fundamentals and Static Graphics | |
|-------------|--|--|

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 LANGL1971 | English for civil engineer architects | Nevin Serbest (coord.) | EN [q2] [20h] [2 Credits] |
|-------------|---------------------------------------|------------------------|---------------------------------|

o Dutch courses

| | | | |
|-------------|---|------------------------|---------------------------------|
| o LNEER1300 | General and academic Dutch - intermediate level | Hilde Bufkens (coord.) | NL [q2] [30h] [2 Credits] |
|-------------|---|------------------------|---------------------------------|

o Spanish Courses

| | | | |
|-------------|---|---|--|
| o LESPA1101 | Spanish beginner's level 1st part (0-A1) | Begona Garcia Migura Fernando Juan San Basilio Pardo Alicia Maria Tirado Fernandez (coord.) | ES [q1 or q2] [45h] [2 Credits] |
| o LESPA1102 | Spanish (beginner;s level) 2nd part (A1 - A2) | Leusuzes (coo | |

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ARCH1BA - 3RD 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.

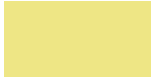
- | | |
|-------------|------------------------------------|
| ● LICAR1111 | Mathematical structures for spaces |
|-------------|------------------------------------|

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]  |
|-------------|---|------------------------|---|

o Spanish Courses

ARCH1BA - Information

Access Requirements

Decree of 7 November 2013 defining the landscape of higher education and the academic organization of studies.

The admission requirements must be met prior to enrolment in the University.

In the event of the divergence between the different linguistic versions of the present conditions, the French version shall prevail.

SUMMARY

- [General access requirements](#)
- [Specific access requirements](#)
- [Access based on validation of professional experience](#)
- [Special requirements to access some programmes](#)

General access requirements

Except as otherwise provided by other specific legal provisions, admission to undergraduate courses leading to the award of a Bachelor's degree will be granted to students with one of the following qualifications :

1. A Certificate of Upper Secondary Education issued during or after the 1993-1994 academic year by an establishment offering full-time secondary education or an adult education centre in the French Community of Belgium and, as the case may be, approved if it was issued by an educational institution before 1 January 2008 or affixed with the seal of the French Community if it was issued after this date, or an equivalent certificate awarded by the Examination Board of the French Community during or after 1994;
2. A Certificate of Upper Secondary Education issued no later than the end of the 1992-1993 academic year, along with official documentation attesting to the student's ability to pursue higher education for students applying for a full-length undergraduate degree programme;
3. A diploma awarded by a higher education institution within the French Community that confers an academic degree issued under the above-mentioned Decree, or a diploma awarded by a university or institution dispensing full-time higher education in accordance with earlier legislation;
4. A higher education certificate or diploma awarded by an adult education centre;
5. A pass certificate for one of the [entrance examinations](#) organized by higher education institutions or by an examination board of the French Community; this document gives admission to studies in the sectors, fields or programmes indicated therein;
6. A diploma, certificate of studies or other qualification similar to those mentioned above, issued by the Flemish Community of Belgium, the German Community of Belgium or the Royal Military Academy;
7. A diploma, certificate of studies or other qualification obtained abroad and deemed equivalent to the first four mentioned above by virtue of a law, decree, European directive or international convention;

Note:

Requests for equivalence must be submitted to the Equivalence department ([Service des équivalences](#)) of the Ministry of Higher Education and Scientific Research of the French Community of Belgium in compliance with the official deadline.

The following two qualifications are automatically deemed equivalent to the Certificate of Upper Secondary Education (Certificat d'enseignement secondaire supérieur – CESS):

- European Baccalaureate issued by the Board of Governors of a European School,
- International Baccalaureate issued by the International Baccalaureate Office in Geneva.

8. Official documentation attesting to a student's ability to pursue higher education (diplôme d'aptitude à accéder à l'enseignement supérieur - DAES), issued by the Examination Board of the French Community.

Specific access requirements

- Access to bachelor programmes for candidates of nationality outside the European Union who are not assimilated to Belgian nationals is subject to the following criteria:

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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** 84400 n401367 6.8158 d of the equivalence re req3of it, you

