

**At Louvain-la-Neuve - 180 credits - 3 years - Day schedule - In French**Dissertation/Graduation Project : **NO** - Internship : **NO**Activities in English: **NO** - Activities in other languages : **NO**Activities on other sites : **NO**Main study domain : **Sciences de l'ingénieur et technologie**Organized by: **Faculty of Architecture, Architectural Engineering and Urban Planning (LOCI)**Programme acronym: **ARCH1BA** - Francophone Certification Framework: 6**Table of contents**

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## 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 2021-2022
- ⊖ Not offered in 2021-2022 but offered the following year
- ⊕ Offered in 2021-2022 but not the following year
- △ ⊕ Not offered in 2021-2022 or the following year
- Activity with requisites
- (FR) Teaching language (FR, EN, ES, NL, DE, ...)

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

### o Programme du bachelier en sciences de l'ingénieur : ingénieur civil architecte (180 credits)

#### o Unités d'enseignement attachés à la formation scientifique de base. (43 credits)

									Year
									1 2 3
● LEPL1301	Chemistry and Physical chemistry 1	Francesco Contino Sophie Demoustier Bernard Nysten	(FR) [q2] [30h+30h] [5 Credits]						x
● LEPL1101	Algebra	François Glineur Raphaël Jungers Jean-François Remacle Michel Verleysen (coord.)	(FR) [q1] [30h+30h] [5 Credits]						x
● LEPL1102	Analysis I	François Glineur (coord.) Raphaël Jungers Jean-François Remacle Michel Verleysen	(FR) [q1] [30h+30h] [5 Credits]						x
● LEPL1105	Analysis II	François Glineur Roland Keunings	(FR) [q2] [30h+30h] [5 Credits]						x
● LICAR1104	Informatique et méthodes numériques	Vincent Legat André Stephan	(FR) [q1] [30h+30h] [5 Credits]						x

				Year		
				1	2	3
○ LICAR1111	Mathematical structures for spaces 🟡	Martin Buysse Pedro Dos Santos Santana Forte Vaz	FB [q2] [30h+20h] [5 Credits]			x
○ LEPL1201	Physics I	Roland Keunings Jean-Didier Legat	FB [q1] [30h+30h] [5 Credits]	x		
○ LEPL1202	Physics II	Paul Fiset Claude Oestges	FB [q2] [30h+30h] [5 Credits]	x		
○ LEPL1203A	Physics III A 🟡	Jean-Christophe Charlier Jérôme Louveaux Claude Oestges (coord.)	FB [q1] [20h+20h] [3 Credits]		x	

### ○ Unités d'enseignement liées aux conditions physiques (49 crédits)

○ LICAR1701	Structures architecturales I : notions fondamentales et statique graphique	Jean-François Rondeaux (compensates) Denis Zastavni Luca Sgambi	FB [q1] [30h] [3 Credits]	x		
○ LICAR1702	Architectural structures 2: Design Issues and Approaches 🟡	Jean-Philippe Jasienski (compensates) Denis Zastavni	FB [q1] [20h+30h] [5 Credits]			x
○ LICAR1711	Advanced Statics 🟡	Paul Fiset	FB [q1] [15h+10h] [2 Credits]		x	
○ LICAR1801	Construction : Materials	Emilie Gobbo Nicolas Van Oost Denis Zastavni	FB [q2] [45h] [5 Credits]	x		
○ LICAR1821	Edification soutenable 1 : construction et performances 🟡	Sergio Altomonte Sophie Trachte Manuel Van Damme	FB [q1] [60h] [5 Credits]		x	
○ LICAR1812	Construction 2 🟡	Nicolas Van Oost	FB [q2] [15h] [2 Credits]			x
○ LGCIV1031	Structural Materials and Geomaterials	Hadrien Rattez João Saraiva Esteves Pacheco De Almeida	FB [q2] [30h+30h] [5 Credits]		x	
○ LGCIV1072	Soil mechanics 🟡	Hadrien Rattez	FB [q1] [30h+30h] [5 Credits]			x
○ LGCIV1022	Mechanics of structures 🟡	Pierre Latteur	FB [q2] [30h+30h] [5 Credits]		x	
○ LGCIV1023	Structural Analysis 🟡	João Saraiva Esteves Pacheco De Almeida	FB [q1] [30h+30h] [5 Credits]			x
○ LGCIV1051A	Hydraulic 🟡	Sandra Soares Frazao	FB [q2] [15h] [2 Credits]			x
○ LGCIV1032	Reinforced concrete structures 🟡	Jean-François Cap	FB [q2] [30h+30h] [5 Credits]			x

### ○ Unités d'enseignement liées aux conditions culturelles (30 crédits)

○ LICAR1101	Cross-disciplinary approaches to architecture 1 : anthropology and philosophy	Jean Stillemans	FB [q1] [30h] [3 Credits]	x		
○ LICAR1102	Cross-disciplinary Approaches to Architecture 2 : Philosophy and aesthetic 🟡	Jean Stillemans	FB [q1] [30h] [3 Credits]		x	
○ LICAR1201	Theory of Architecture 1: introduction	David Vanderburgh	FB [q2] [15h+15h] [3 Credits]	x		
○ LICAR1202	Theory of Architecture 2: Theories 🟡	Nele De Raedt	FB [q2] [15h+15h] [3 Credits]		x	
○ LICAR1203	Théorie de l'architecture 3 : la composition [15h] (2 crédits) 🟡	David Vanderburgh	FB [q1] [15h+15h] [3 Credits]			x
○ LICAR1302	History of architecture: contemporary [15h]	Olivier Masson	FB [q1] [30h] [3 Credits]		x	
○ LICAR1303	Histoire de l'art : le moderne et le contemporain	Henry Pouillon	FB [q1] [30h] [3 Credits]			x
○ LICAR1304	Architecture and the City 1 [15h] (2 crédits) Semester 1	Christian Gilot	FB [q2] [30h] [3 Credits]			x

### ○ Arts et civilisations (6 crédits)

Les deux cours bisannuels suivants seront suivis durant l'année ou ils se donnent.

○ LARKE1556	Arts and civilisations : architecture of Antiquity and the Middle Ages	Philippe Bragard	FB [q2] [30h] [3 Credits] ⊕	x	x	
○ LARKE1554	Arts and civilisations: architecture from the Renaissance to today	Philippe Bragard	FB [q2] [30h] [3 Credits] ⊖	x	x	

### o Projets d'architecture et cours de dessin (52 credits)

o LICAR1501	Drawing 1: City and Territory	Nele De Raedt	FR [q1] [60h] [4 Credits]	X		
o LICAR1502	Drawing 2: Places	Olivier Bourez	FR [q1] [60h] [4 Credits]	X		
o LICAR1503	Drawing 3: Composition and compositional techniques	Frédéric Andrieux	FR [q2] [45h] [3 Credits]	X		
o LICAR1601	Design Studio I: Landscape and edifice	David Vanderburgh	FR [q2] [75h] [5 Credits]	X		
o LICAR1504	Drawing 4: Presentation and presentation techniques [45h] 🟡	Frédéric Andrieux	FR [q2] [45h] [3 Credits]		X	
o LICAR1602	Design Studio 2: History and Habitat [60h] 🟡	Olivier Masson	FR [q1] [60h] [4 Credits]		X	
o LICAR1603	Design Studio 3 : Institution and Edifice [60h] 🟡	Nicolas Van Oost	FR [q1] [60h] [4 Credits]		X	
o LICAR1604	Design Studio 4 : City and Edifice [75h] 🟡	Christian Gilot	FR [q2] [75h] [5 Credits]		X	
o LICAR1605	Studio 5 : Architecture, Technology and Sustainable Development [60h] (4 credits) 🟡	Sergio Altomonte Denis Zastavni	FR [q1] [60h] [5 Credits]			X
o LICAR1606	Studio 6: Architecture, Urban and Landscape Orientation 🟡	Martin Outers André Stephan	FR [q1] [60h] [5 Credits]			X
o LICAR1607	Studio 7: Synthesis 🟡	Olivier Bourez Nicolas Van Oost	FR [q2] [120h] [10 Credits]			X

### o Formation en langues. (6 credits)

Des tests sont organisés pour les cours LANGL1971 et LANGL1972. L'étudiant qui réussit un test est dispensé d'assister au cours correspondant. Il peut soit présenter l'examen de ce cours d'anglais, soit le remplacer par des cours d'autres langues. Il n'y a pas de test pour le cours LANGL1973 car il est obligatoire pour tous. Dans les 180 crédits du programme de bachelier, il y a nécessairement 6 crédits de langue dont 2 de ANGL1973.

#### o Cours d'anglais

Des tests sont organisés pour les cours LANGL1971 et LANGL1972. L'étudiant qui réussit un test est dispensé d'assister au cours correspondant. Il peut soit présenter l'examen de ce cours d'anglais, soit le remplacer par des cours d'autres langues. Il n'y a pas de test pour le cours LANGL1973 car il est obligatoire pour tous.

o LANGL1971	English for civil engineer architects	Nevin Serbest (coord.)	EN [q2] [20h] [2 Credits]	X		
o LANGL1972	English II for civil engineer architects 🟡	Nevin Serbest (coord.)	EN [q2] [20h] [2 Credits]		X	
o LANGL1973	English Communication Skills for Architecture and Engineering 🟡	Adrien Pham (coord.)	EN [q2] [20h] [2 Credits]			X

#### 🔗 Dutch courses

🔗 LNEER1300	General and academic Dutch - intermediate level	Hilde Bufkens (coord.)	NL [q1 or q2] [30h] [2 Credits]	X		
🔗 LNEER1500	Interfaculty teaching unit - General and academic Dutch - upper-intermediate level 🟡	Hilde Bufkens (coord.) Valérie Dachy	NL [q1] [30h] [3 Credits]		X	

#### 🔗 Spanish Courses

🔗 LESPA1100	Spanish (beginner's level) 0-A2		ES [q1+q2] [90h] [2 Credits] Δ	X		
🔗 LESPA1300	spanish middle level 🟡		ES [q1+q2] [90h] [3 Credits] Δ		X	
🔗 LESPA1500	Spanish Advanced level (B1.2 , B2.1) 🟡	Alicia Maria Tirado Fernandez (compensates Carmen Vallejo Villamor)	ES [q1] [45h] [2 Credits]			X
🔗 LESPA1101	Spanish beginner's level 1st part (0-A1)	Begona Garcia Migura Juan Landa Diestro Alicia Maria Tirado Fernandez Carmen Vallejo Villamor (coord.)	ES [q1 or q2] [45h] [2 Credits]			X

#### 🔗 German courses

🔗 LALLE1100	German - Elementary level	Caroline Klein Ann Rinder (coord.)	DE [q1+q2] [90h] [2 Credits]	X		
🔗 LALLE1300	General German – independent user – threshold 🟡	Virginie Godin (coord.) Joy Picrit (compensates Virginie Godin)	DE [q1+q2] [90h] [3 Credits]		X	

				Year		
				1	2	3
⌘ LALLE1500	General German – independent user – vantage 🟡	Virginie Godin (coord.) Joy Picrit (compensates Virginie Godin)	🟡 [q1+q2] [90h] [2 Credits]			x

⌘ **Other language courses**

*The student could propose a course in another language.*

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## 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:

- transform a prerequisite into a corequisite within the same year (to enable the student to continue his or her studies with a sufficient annual course load)
- require the student to combine registration in two separate CUs which it considers necessary from a pedagogical point of view.

For more information, please consult the [Academic Regulations and Procedures](https://uclouvain.be/fr/decouvrir/rgee.html) (<https://uclouvain.be/fr/decouvrir/rgee.html>).

### # Prerequisites list

<b>LALLE1300</b>	"Allemand General – utilisateur indépendant – niveau seuil" has prerequisite(s) LALLE1100
	• LALLE1100 - German - Elementary level
<b>LALLE1500</b>	"Allemand General – utilisateur indépendant – niveau avancé" has prerequisite(s) LALLE1300
	• LALLE1300 - General German – independent user – threshold
<b>LANGL1972</b>	"Anglais II pour ingénieurs civils architectes" has prerequisite(s) LANGL1971
	• LANGL1971 - English for civil engineer architects
<b>LANGL1973</b>	"English Communication Skills for Architecture and Engineering" has prerequisite(s) LANGL1972
	• LANGL1972 - English II for civil engineer architects
<b>LEPL1203A</b>	"Physique 3 A" has prerequisite(s) LEPL1202
	• LEPL1202 - Physics II
<b>LESPA1300</b>	"Espagnol niveau moyen" has prerequisite(s) LESPA1100
	• LESPA1100 - Spanish (beginner's level) 0-A2
<b>LESPA1500</b>	"Espagnol - Niveau approfondi (B1.2 - B2.1)" has prerequisite(s) LESPA1300
	• LESPA1300 - spanish middle level
<b>LGCIV1022</b>	"Mécanique des structures" has prerequisite(s) LEPL1101 ET LEPL1102 ET LEPL1105 ET LEPL1201 ET LEPL1202
	• LEPL1101 - Algebra
	• LEPL1102 - Analysis I
	• LEPL1105 - Analysis II
	• LEPL1201 - Physics I
	• LEPL1202 - Physics II
<b>LGCIV1023</b>	"Stabilité des constructions" has prerequisite(s) LGCIV1031 ET LGCIV1022
	• LGCIV1031 - Structural Materials and Geomaterials
	• LGCIV1022 - Mechanics of structures
<b>LGCIV1032</b>	"Structures en béton armé" has prerequisite(s) LGCIV1031 ET LGCIV1022
	• LGCIV1031 - Structural Materials and Geomaterials
	• LGCIV1022 - Mechanics of structures
<b>LGCIV1051A</b>	"hydraulique" has prerequisite(s) LEPL1202
	• LEPL1202 - Physics II
<b>LGCIV1072</b>	"Mécanique des sols" has prerequisite(s) LGCIV1031
	• LGCIV1031 - Structural Materials and Geomaterials
<b>LICAR1102</b>	"Approche croisée de l'architecture 2 : philosophie et esthétique" has prerequisite(s) LICAR1101
	• LICAR1101 - Cross-disciplinary approaches to architecture 1 : anthropology and philosophy
<b>LICAR1111</b>	"Structures mathématiques des espaces" has prerequisite(s) LEPL1101
	• LEPL1101 - Algebra
<b>LICAR1202</b>	"Théorie de l'architecture 2 : les théories" has prerequisite(s) LICAR1201
	• LICAR1201 - Theory of Architecture 1: introduction
<b>LICAR1203</b>	"Théorie de l'architecture 3 : la composition" has prerequisite(s) LICAR1202
	• LICAR1202 - Theory of Architecture 2: Theories
<b>LICAR1504</b>	"Dessin 4 : la présentation et ses techniques" has prerequisite(s) LICAR1501 ET LICAR1502 ET LICAR1503
	• LICAR1501 - Drawing 1: City and Territory
	• LICAR1502 - Drawing 2: Places
	• LICAR1503 - Drawing 3: Composition and compositional techniques

- LICAR1602** "Atelier 2 : Histoire et Habitat" has prerequisite(s) LICAR1601
- LICAR1601 - [Design Studio I: Landscape and edifice](#)
- LICAR1603** "Atelier 3 : Institution et Edifice" has prerequisite(s) LICAR1601
- LICAR1601 - [Design Studio I: Landscape and edifice](#)
- LICAR1604** "Atelier 4 : Ville et Edifice" has prerequisite(s) LICAR1601
- LICAR1601 - [Design Studio I: Landscape and edifice](#)
- LICAR1605** "Atelier 5 : orientation Architecture, Technologie et Développement durable" has prerequisite(s) LICAR1601 ET LICAR1602 ET LICAR1603 ET LICAR1604
- LICAR1601 - [Design Studio I: Landscape and edifice](#)
  - LICAR1602 - [Design Studio 2: History and Habitat \[60h\]](#)
  - LICAR1603 - [Design Studio 3 : Institution and Edifice \[60h\]](#)
  - LICAR1604 - [Design Studio 4 : City and Edifice \[75h\]](#)
- LICAR1606** "Atelier 6 : Orientation Architecture, Ville, Paysage" has prerequisite(s) LICAR1601 ET LICAR1602 ET LICAR1603 ET LICAR1604
- LICAR1601 - [Design Studio I: Landscape and edifice](#)
  - LICAR1602 - [Design Studio 2: History and Habitat \[60h\]](#)
  - LICAR1603 - [Design Studio 3 : Institution and Edifice \[60h\]](#)
  - LICAR1604 - [Design Studio 4 : City and Edifice \[75h\]](#)
- LICAR1607** "Atelier 7 : Synthèse" has prerequisite(s) LICAR1601 ET LICAR1602 ET LICAR1603 ET LICAR1604
- LICAR1601 - [Design Studio I: Landscape and edifice](#)
  - LICAR1602 - [Design Studio 2: History and Habitat \[60h\]](#)
  - LICAR1603 - [Design Studio 3 : Institution and Edifice \[60h\]](#)
  - LICAR1604 - [Design Studio 4 : City and Edifice \[75h\]](#)
- LICAR1702** "Structures architecturales 2 : problématiques et approches de conception" has prerequisite(s) LICAR1701
- LICAR1701 - [Structures architecturales I : notions fondamentales et statique graphique](#)
- LICAR1711** "Compléments de statique" has prerequisite(s) LEPL1101 ET LEPL1102 ET LEPL1105 ET LEPL1201 ET LEPL1202
- LEPL1101 - [Algebra](#)
  - LEPL1102 - [Analysis I](#)
  - LEPL1105 - [Analysis II](#)
  - LEPL1201 - [Physics I](#)
  - LEPL1202 - [Physics II](#)
- LICAR1812** "Mises en oeuvre 2" has prerequisite(s) LICAR1801
- LICAR1801 - [Construction : Materials](#)
- LICAR1821** "Edification soutenable 1 : construction et performances" has prerequisite(s) LICAR1801
- LICAR1801 - [Construction : Materials](#)
- 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 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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- Mandatory
- ⊗ Optional
- △ Not offered in 2021-2022
- ⊙ Not offered in 2021-2022 but offered the following year
- ⊕ Offered in 2021-2022 but not the following year
- △ ⊕ Not offered in 2021-2022 or the following year
- Activity with requisites
- [FR] Teaching language (FR, EN, ES, NL, DE, ...)

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



## o Programme du bachelier en sciences de l'ingénieur : ingénieur civil architecte

### o Unités d'enseignement attachés à la formation scientifique de base.

LEPL1101	Algebra	François Glineur Raphaël Jungers Jean-François Remacle Michel Verleysen (coord.)	FB [q1] [30h+30h] [5 Credits]
LEPL1102	Analysis I	François Glineur (coord.) Raphaël Jungers Jean-François Remacle Michel Verleysen	FB [q1] [30h+30h] [5 Credits]
LEPL1105	Analysis II	François Glineur Roland Keunings	FB [q2] [30h+30h] [5 Credits]
LEPL1201	Physics I	Roland Keunings Jean-Didier Legat	FB [q1] [30h+30h] [5 Credits]
LEPL1202	Physics II	Paul Fiset Claude Oestges	FB [q2] [30h+30h] [5 Credits]

### o Unités d'enseignement liées aux conditions physiques

LICAR1701	Structures architecturales I : notions fondamentales et statique graphique	Jean-François Rondeaux (compensates) Denis Zastavni Luca Sgambi	FB [q1] [30h] [3 Credits]
LICAR1801	Construction : Materials	Emilie Gobbo Nicolas Van Oost Denis Zastavni	FB [q2] [45h] [5 Credits]

### o Unités d'enseignement liées aux conditions culturelles

LICAR1101	Cross-disciplinary approaches to architecture 1 : anthropology and philosophy	Jean Stillemans	FB [q1] [30h] [3 Credits]
LICAR1201	Theory of Architecture 1: introduction	David Vanderburgh	FB [q2] [15h+15h] [3 Credits]

### o Arts et civilisations

Les deux cours bisannuels suivants seront suivis durant l'année ou ils se donnent.

LARKE1556	Arts and civilisations : architecture of Antiquity and the Middle Ages	Philippe Bragard	FB [q2] [30h] [3 Credits] ⊕
LARKE1554	Arts and civilisations: architecture from the Renaissance to today	Philippe Bragard	FB [q2] [30h] [3 Credits] ⊖

### o Projets d'architecture et cours de dessin

LICAR1501	Drawing 1: City and Territory	Nele De Raedt	FB [q1] [60h] [4 Credits]
LICAR1502	Drawing 2: Places	Olivier Bourez	FB [q1] [60h] [4 Credits]
LICAR1503	Drawing 3: Composition and compositional techniques	Frédéric Andrieux	FB [q2] [45h] [3 Credits]
LICAR1601	Design Studio I: Landscape and edifice	David Vanderburgh	FB [q2] [75h] [5 Credits]

### o Formation en langues.

Des tests sont organisés pour les cours LANGL1971 et LANGL1972. L'étudiant qui réussit un test est dispensé d'assister au cours correspondant. Il peut soit présenter l'examen de ce cours d'anglais, soit le remplacer par des cours d'autres langues. Il n'y a pas de test pour le cours LANGL1973 car il est obligatoire pour tous. Dans les 180 crédits du programme de bachelier, il y a nécessairement 6 crédits de langue dont 2 de ANGL1973.

**○ Cours d'anglais**

Des tests sont organisés pour les cours LANGL1971 et LANGL1972. L'étudiant qui réussit un test est dispensé d'assister au cours correspondant. Il peut soit présenter l'examen de ce cours d'anglais, soit le remplacer par des cours d'autres langues. Il n'y a pas de test pour le cours LANGL1973 car il est obligatoire pour tous.

○ LANGL1971	English for civil engineer architects	Nevin Serbest (coord.)	EN [q2] [20h] [2 Credits]
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**⊗ Dutch courses**

⊗ LNEER1300	General and academic Dutch - intermediate level	Hilde Bufkens (coord.)	NL [q1 or q2] [30h] [2 Credits]
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**⊗ Spanish Courses**

⊗ LESPA1100	Spanish (beginner's level) 0-A2		ES [q1+q2] [90h] [2 Credits] Δ
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**⊗ German courses**

⊗ LALLE1100	German - Elementary level	Caroline Klein Ann Rinder (coord.)	DE [q1+q2] [90h] [2 Credits]
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**ARCH1BA - 2ND ANNUAL UNIT**

- Mandatory
- ⊗ Optional
- △ Not offered in 2021-2022
- ⊖ Not offered in 2021-2022 but offered the following year
- ⊕ Offered in 2021-2022 but not the following year
- △ ⊕ Not offered in 2021-2022 or the following year
- Activity with requisites
- [FR] Teaching language (FR, EN, ES, NL, DE, ...)

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

**o Programme du bachelier en sciences de l'ingénieur : ingénieur civil architecte****o Unités d'enseignement attachés à la formation scientifique de base.**

○ LEPL1301	Chemistry and Physical chemistry 1	Francesco Contino Sophie Demoustier Bernard Nysten	[FR] [q2] [30h+30h] [5 Credits]
○ LICAR1104	Informatique et méthodes numériques	Vincent Legat André Stephan	[FR] [q1] [30h+30h] [5 Credits]
○ LEPL1203A	Physics III A ■	Jean-Christophe Charlier Jérôme Louveaux Claude Oestges (coord.)	[FR] [q1] [20h+20h] [3 Credits]

**o Unités d'enseignement liées aux conditions physiques**

○ LICAR1711	Advanced Statics ■	Paul Fiset	[FR] [q1] [15h+10h] [2 Credits]
○ LICAR1821	Edification soutenable 1 : construction et performances ■	Sergio Altomonte Sophie Trachte Manuel Van Damme	[FR] [q1] [60h] [5 Credits]
○ LGCIV1031	Structural Materials and Geomaterials	Hadrien Rattiez João Saraiva Esteves Pacheco De Almeida	[FR] [q2] [30h+30h] [5 Credits]
○ LGCIV1022	Mechanics of structures ■	Pierre Latteur	[FR] [q2] [30h+30h] [5 Credits]

**o Unités d'enseignement liées aux conditions culturelles**

○ LICAR1102	Cross-disciplinary Approaches to Architecture 2 : Philosophy and aesthetic ■	Jean Stillemans	[FR] [q1] [30h] [3 Credits]
○ LICAR1202	Theory of Architecture 2: Theories ■	Nele De Raedt	[FR] [q2] [15h+15h] [3 Credits]
○ LICAR1302	History of architecture: contemporary [15h]	Olivier Masson	[FR] [q1] [30h] [3 Credits]

**o Arts et civilisations**

Les deux cours bisannuels suivants seront suivis durant l'année ou ils se donnent.

○ LARKE1556	Arts and civilisations : architecture of Antiquity and the Middle Ages	Philippe Bragard	[FR] [q2] [30h] [3 Credits] ⊕
○ LARKE1554	Arts and civilisations: architecture from the Renaissance to today	Philippe Bragard	[FR] [q2] [30h] [3 Credits] ⊖

**o Projets d'architecture et cours de dessin**

○ LICAR1504	Drawing 4: Presentation and presentation techniques [45h] ■	Frédéric Andrieux	[FR] [q2] [45h] [3 Credits]
○ LICAR1602	Design Studio 2: History and Habitat [60h] ■	Olivier Masson	[FR] [q1] [60h] [4 Credits]

○ LICAR1603	Design Studio 3 : Institution and Edifice [60h] 🟡	Nicolas Van Oost	FR [q1] [60h] [4 Credits]
○ LICAR1604	Design Studio 4 : City and Edifice [75h] 🟡	Christian Gilot	FR [q2] [75h] [5 Credits]

### ○ Formation en langues.

Des tests sont organisés pour les cours LANGL1971 et LANGL1972. L'étudiant qui réussit un test est dispensé d'assister au cours correspondant. Il peut soit présenter l'examen de ce cours d'anglais, soit le remplacer par des cours d'autres langues. Il n'y a pas de test pour le cours LANGL1973 car il est obligatoire pour tous. Dans les 180 crédits du programme de bachelier, il y a nécessairement 6 crédits de langue dont 2 de ANGL1973.

### ○ Cours d'anglais

Des tests sont organisés pour les cours LANGL1971 et LANGL1972. L'étudiant qui réussit un test est dispensé d'assister au cours correspondant. Il peut soit présenter l'examen de ce cours d'anglais, soit le remplacer par des cours d'autres langues. Il n'y a pas de test pour le cours LANGL1973 car il est obligatoire pour tous.

○ LANGL1972	English II for civil engineer architects 🟡	Nevin Serbest (coord.)	FR [q2] [20h] [2 Credits]
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### ⊗ Dutch courses

⊗ LNEER1500	Interfaculty teaching unit - General and academic Dutch - upper-intermediate level 🟡	Hilde Bufkens (coord.) Valérie Dachy	NL [q1] [30h] [3 Credits]
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### ⊗ Spanish Courses

⊗ LESPA1300	spanish middle level 🟡		ES [q1+q2] [90h] [3 Credits] △
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### ⊗ German courses

⊗ LALLE1300	General German – independent user – threshold 🟡	Virginie Godin (coord.) Joy Picrit (compensates Virginie Godin)	DE [q1+q2] [90h] [3 Credits]
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**ARCH1BA - 3RD ANNUAL UNIT**

- Mandatory
- ⊗ Optional
- △ Not offered in 2021-2022
- ⊖ Not offered in 2021-2022 but offered the following year
- ⊕ Offered in 2021-2022 but not the following year
- △ ⊕ Not offered in 2021-2022 or the following year
- Activity with requisites
- [FR] Teaching language (FR, EN, ES, NL, DE, ...)

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

**o Programme du bachelier en sciences de l'ingénieur : ingénieur civil architecte****o Unités d'enseignement attachés à la formation scientifique de base.**

○ LICAR1111	Mathematical structures for spaces ■	Martin Buysse Pedro Dos Santos Santana Forte Vaz	[FR] [q2] [30h+20h] [5 Credits]
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**o Unités d'enseignement liées aux conditions physiques**

○ LICAR1702	Architectural structures 2: Design Issues and Approaches ■	Jean-Philippe Jasienski (compensates Denis Zastavni)	[FR] [q1] [20h+30h] [5 Credits]
○ LICAR1812	Construction 2 ■	Nicolas Van Oost	[FR] [q2] [15h] [2 Credits]
○ LGCIV1072	Soil mechanics ■	Hadrien Rattez	[FR] [q1] [30h+30h] [5 Credits]
○ LGCIV1023	Structural Analysis ■	João Saraiva Esteves Pacheco De Almeida	[FR] [q1] [30h+30h] [5 Credits]
○ LGCIV1051A	Hydraulic ■	Sandra Soares Frazao	[FR] [q2] [15h] [2 Credits]
○ LGCIV1032	Reinforced concrete structures ■	Jean-François Cap	[FR] [q2] [30h+30h] [5 Credits]

**o Unités d'enseignement liées aux conditions culturelles**

○ LICAR1203	Théorie de l'architecture 3 : la composition [15h] (2 credits) ■	David Vanderburgh	[FR] [q1] [15h+15h] [3 Credits]
○ LICAR1303	Histoire de l'art : le moderne et le contemporain	Henry Pouillon	[FR] [q1] [30h] [3 Credits]
○ LICAR1304	Architecture and the City 1 [15h] (2 credits) Semester 1	Christian Gilot	[FR] [q2] [30h] [3 Credits]

**o Projets d'architecture et cours de dessin**

○ LICAR1605	Studio 5 : Architecture, Technology and Sustainable Development [60h] (4 credits) ■	Sergio Altomonte Denis Zastavni	[FR] [q1] [60h] [5 Credits]
○ LICAR1606	Studio 6: Architecture, Urban and Landscape Orientation ■	Martin Outers André Stephan	[FR] [q1] [60h] [5 Credits]
○ LICAR1607	Studio 7: Synthesis ■	Olivier Bourez Nicolas Van Oost	[FR] [q2] [120h] [10 Credits]

**o Formation en langues.**

Des tests sont organisés pour les cours LANGL1971 et LANGL1972. L'étudiant qui réussit un test est dispensé d'assister au cours correspondant. Il peut soit présenter l'examen de ce cours d'anglais, soit le remplacer par des cours d'autres langues. Il n'y a pas de test pour le cours LANGL1973 car il est obligatoire pour tous. Dans les 180 crédits du programme de bachelier, il y a nécessairement 6 crédits de langue dont 2 de ANGL1973.

**○ Cours d'anglais**

Des tests sont organisés pour les cours LANGL1971 et LANGL1972. L'étudiant qui réussit un test est dispensé d'assister au cours correspondant. Il peut soit présenter l'examen de ce cours d'anglais, soit le remplacer par des cours d'autres langues. Il n'y a pas de test pour le cours LANGL1973 car il est obligatoire pour tous.

○ LANGL1973	English Communication Skills for Architecture and Engineering 🇺🇸	Adrien Pham (coord.)	ES [q2] [20h] [2 Credits]
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**⊗ Spanish Courses**

⊗ LESPA1500	Spanish Advanced level (B1.2 , B2.1) 🇪🇸	Alicia Maria Tirado Fernandez (compensates Carmen Vallejo Villamor)	ES [q1] [45h] [2 Credits]
⊗ LESPA1101	Spanish beginner's level 1st part (0-A1)	Begona Garcia Migura Juan Landa Diestro Alicia Maria Tirado Fernandez Carmen Vallejo Villamor (coord.)	ES [q1 or q2] [45h] [2 Credits]

**⊗ German courses**

⊗ LALLE1500	General German – independent user – vantage 🇩🇪	Virginie Godin (coord.) Joy Picrit (compensates Virginie Godin)	ES [q1+q2] [90h] [2 Credits]
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## 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](https://uclouvain.be/fr/etudier/inscriptions/examens-admission.html) (https://uclouvain.be/fr/etudier/inscriptions/examens-admission.html) 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

- To be eligible to apply to a bachelor's programme, holder of a non-belgian degree who do not have Belgian student status must also:
  - have earned a secondary school degree within the last three years;
  - not already hold a bachelor's degree; and,
- Candidates, whatever their nationality, with a secondary school diploma from a country outside the European Union, must have obtained an average of 13/20 minimum or, failing that, have obtained this average, have passed one year of study in Belgium (for example special Maths / sciences).
- 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](#).

- Not to have obtained a secondary education diploma for more than 3 years maximum. Example: for an admission application for the academic year 2021-2022, you must have obtained your diploma during the academic years 2018-2019, 2019-2020 or 2020-2021. In the French Community of Belgium, the academic year runs from September 14 to September 13.[1\\_information/2021/common-bachelor/](#)

## Access based on validation of professional experience

Admission to undergraduate studies on the basis of accreditation of knowledge and skills obtained through professional or personal experience (Accreditation of Prior Experience)

Subject to the general requirements laid down by the authorities of the higher education institution, with the aim of admission to the undergraduate programme, the examination boards accredit the knowledge and skills that students have obtained through their professional or personal experience.

This experience must correspond to at least five years of documented activity, with years spent in higher education being partially taken into account: 60 credits are deemed equivalent to one year of experience, with a maximum of two years being counted. At the end of an assessment procedure organized by the authorities of the higher education institution, the Examination Board will decide whether a student has sufficient skills and knowledge to successfully pursue undergraduate studies.

After this assessment, the Examination Board will determine the additional courses and possible exemptions constituting the supplementary requirements for the student's admission.

## Special requirements to access some programmes

- Admission to **undergraduate studies in engineering: civil engineering and architect**

Pass certificate for the [special entrance examination for undergraduate studies in engineering: civil engineering and architect](https://uclouvain.be/fr/facultes/epl/examenadmission.html) (<https://uclouvain.be/fr/facultes/epl/examenadmission.html>).

Admission to these courses is always subject to students passing the special entrance examination. Contact the faculty office for the programme content and the examination arrangements.

- Admission to **undergraduate studies in veterinary medicine**

[Admission to undergraduate studies in veterinary medicine is governed by the Decree of 16 June 2006 regulating the number of students in certain higher education undergraduate courses \(non-residents\)](https://uclouvain.be/en/study/inscriptions/etudes-contingentes.html) (<https://uclouvain.be/en/study/inscriptions/etudes-contingentes.html>).

- Admission to **undergraduate studies in physiotherapy and rehabilitation**

[Admission to undergraduate studies in physiotherapy and rehabilitation is governed by the Decree of 16 June 2006 regulating the number of students in certain higher education undergraduate courses \(non-residents\)](https://uclouvain.be/en/study/inscriptions/etudes-contingentes.html). (<https://uclouvain.be/en/study/inscriptions/etudes-contingentes.html>)

- Admission to **undergraduate studies in psychology and education: speech and language therapy**

[Admission to undergraduate studies in psychology and education: speech and language therapy is governed by the Decree of 16 June 2006 regulating the number of students in certain higher education undergraduate courses \(non-residents\)](https://uclouvain.be/en/study/inscriptions/etudes-contingentes.html) (<https://uclouvain.be/en/study/inscriptions/etudes-contingentes.html>).

- Admission to **undergraduate studies in medicine and dental science**

[Admission to undergraduate studies in medicine and dental science is governed by the Decree of 16 June 2006 regulating the number of students in certain higher education undergraduate courses \(non-residents\)](https://uclouvain.be/en/study/inscriptions/etudes-contingentes.html). (<https://uclouvain.be/en/study/inscriptions/etudes-contingentes.html>)

Note: students wishing to enrol for a **Bachelor's degree in Medicine** or a **Bachelor's degree in dental science** must first sit [an aptitude test \(fr\)](https://uclouvain.be/en/study/inscriptions/etudes-contingentes.html) (<https://uclouvain.be/en/study/inscriptions/etudes-contingentes.html>).



## 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".**

In the design studio and for some course-related activities, students are closely accompanied in their studies throughout the whole process so as to situate themselves appropriately in individual and group work and make any necessary adjustments.

In addition, they are evaluated during the course of the quadrimester and yet again at the end of the quadrimester in each of the given subjects to ascertain whether they are meeting the demands of the programme and have successfully completed the modules concerned.

## Possible trainings at the end of the programme

### Accès aux Masters en sciences de l'ingénieur : ingénieur civil architecte.

A l'intérieur de la Faculté d'Architecture, d'Ingénierie architecturale et d'Urbanisme (LOCI) et parmi les diplômés gérés par l'EPL : l'orientation du Bachelier ingénieur civil architecte est spécifique, et cela dès le premier quadrimestre. La possibilité d'orientation progressive ou de réorientation est donc faible.

La réussite de ce Bachelier ne donne accès automatique qu'au seul Master ingénieur civil architecte. Néanmoins, le suivi de la mineure adéquate peut donner à l'étudiant accès au Master Architecte (sous condition de l'approbation de la Commission de Programme MARC) ou au programme de Master ingénieur civil des constructions auprès de l'EPL (sous condition de suivi de certains cours).

L'accès à un Master ingénieur civil nécessite une année d'études complémentaire (60 crédits). Réciproquement, l'accès au Master ingénieur civil architecte nécessite une année d'études complémentaire (60 crédits) aux diplômés Bacheliers en sciences de l'ingénieur-ingénieur civil (EPL); pour les diplômés Bacheliers architecte, un programme particulier devra être mis au point qui suppose en outre le passage de l'examen d'admission.

## Contacts

### Curriculum Management

Faculty

Structure entity

Denomination

Sector

Acronym

Postal address

SST/LOCI

Faculty of Architecture, Architectural Engineering and Urban Planning (LOCI)

Sciences and Technology (SST)

LOCI

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Website

Mandate(s)

- Dean : Eric Van Overstraeten
- Dean : Cécile Chanvillard
- Dean : Olivier Masson
- Dean : Renaud Pleitinx
- Administrative director : France Pécher

Commission(s) of programme

- Commission du bachelier en architecture (BARC)
- Commission du bachelier en ingénieur civil architecte (BIAR)
- Commission du master en architecture (MARC)
- Commission du master en ingénieur civil architecte (MIAR)
- Ecole d'urbanisme et d'aménagement du territoire (URBA)

