

**At Louvain-la-Neuve - 180 credits - 3 years - Day schedule - In French**Dissertation/Graduation Project : **NO** - Internship : **NO**Activities in English: **YES** - Activities in other languages : **NO**Activities on other sites : **NO**Main study domain : **Sciences**Organized by: **Faculty of Science (SC)**Programme acronym: **GEOG1BA** - Francophone Certification Framework: 6**Table of contents**

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## GEOG1BA - Introduction

### Introduction

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## GEOG1BA - Teaching profile

### Learning outcomes

The future graduate will be preparing for the masters level training in geographic science, general orientation, or climate orientation. They will approach geographic questions at various scale and be trained in multidisciplinary approaches and spatial analysis techniques.

The bachelor student will learn to use both theoretical and practical knowledge. They acquire competence in analyses, modeling and communication. They are able to monitor and describe the environment, to understand and explain the spatial organizations of natural phenomena, human activity and how they interact, and of using well-defined geographic techniques.

At the end of its training in the Faculty of Sciences, the student will have acquired the disciplinary and transversal knowledge and competence necessary to be a relevant and useful professional. Their capacity to model and understand geographic phenomena in-depth and their taste for research and for scientific rigor are sought after not only in scientific employment (research, development, education) but also more broadly in today's and tomorrow's society.

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

1. 1. Master and apply the main concepts of fundamental and human sciences and the foundations of geographic sciences needed to understand geographic questions.
  1. Master and apply basic concepts in fundamental sciences in the following disciplines : mathematics, chemistry, physics, animal biology, plant biology and geology.
  2. Identify and use the basic concepts in human sciences in the following disciplines : political economy, demography, geopolitics, development science, philosophy.
  3. Integrate and use the foundations of geographic sciences : In physical geography : geomorphology and biogeography; In human geography : urban geography, transport geography, rural geography, geography of health and economic geography ; In climatology : bioclimatology and meteorology.
2. 2. Monitoring and describe the environment and its evolution
  1. Describe the landscape and use templates for analysis in the context of field-based observation in Belgium.
  2. Analyse aerial pictures, topographic maps and thematic maps.
  3. Synthesize the organisation of the land using satellite Earth observation.
  4. Use a diversity of spatial data bases
3. Analyze the behavior of natural systems and human systems and their interactions.
  1. Identify the characteristics of spatial organization, their physical and human components how they interact.
  2. Formulate hypotheses and assumptions.
  3. Carry out a literature search on the topic in French and in English and synthesize the information collected.
  4. Collect and assemble the relevant data.
  5. Apply an identified data analysis method.
  6. Demonstrate rigorous attitude, precision and critical mind.
4. 4. Describe quantitatively the behavior of natural and human systems using numerical models
  - Master statistical analysis methods.
  - Interpret and analyze remotely sensed data.
  - Make thematic maps.
  - Use Geographic Information Systems.
5. 5. Use appropriate digital tools to process and analyze data
  - Write computer code and carry out statistical analysis using R.
  - Use remote sensing image processing software.
  - Use appropriate digital tools to process and analyze data.
6. 6. Participate in integrated, well-defined geography projects, as part of a team
  - Link various aspects of geography, accounting for natural and human dimensions.
  - Take part in a project on a well-defined question, using a methodological guidance.
  - Analyse and synthesize results.
  - Collaborate in a team and develop relational qualities.
7. 7. Communicate results and methods efficiently to a diversity of stakeholders
  - Communicate orally and in writing in French and in English (B1 level)
  - Communicate results to peers.
  - Communicate using maps, synthesis sketches and graphs.
  - Master the digital tools and techniques needed for communication.

## Programme structure

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The bachelor's programme begins with the acquisition of basic knowledge in the sciences (Mathematics, Physics, Chemistry, Biology,...) and in the subjects connected with geography (Earth Sciences, Geology, Meteorology, Economics...).

The study programme in Geography, which is integrated and developed in a progressive way, revolves around three main subject areas. Firstly, Physical Geography which includes the study of the functioning and changes of the climate, the forms of relief and vegetation. Secondly, Human Geography which analyses how and why human activities are developed in certain places and how these decisions collectively lead to spatial structures. Thirdly, the Geographical Analysis Techniques which include cartography, geographical information and the methods used for processing and interpreting spatial data, notably via satellites.

The courses include practical work, field trips and a project which will help the student to witness concrete problems first hand and to gain experience in finding appropriate solutions.

In accordance with his personal ambitions and in concertation with the Study Advisor, the student may envisage completing his training in Geography by choosing additional options, for a total of 180 credits, or by opting for a minor to be chosen from the University programme.

### Principal Subjects

#### Foundation courses (57 credits)

- Mathematics, Statistics (16 credits)
- Physics (20 credits)
- Chemistry (10 credits)
- Biology (11 credits)

#### Related subjects (25 credits)

- Earth Sciences (17 credits)
- Economics (8 credits)

#### Geography (57 credits)

- Human Geography (16 credits)
- Physical Geography (17 credits)
- Techniques (20 credits)
- Project (4 credits)

#### Languages

- English (6 credits)

#### Philosophy (2 credits)

#### Free Options (3 credits)

The first quadrimester of the first year is similar to the bachelor programmes in Chemistry, Biology and Bio-Engineering to facilitate study re-orientation from these programmes at the end of this first quadrimester. Re-orientation may also be possible upon completion of the first year, subject to complementary sessions.

This first year of studies is composed, in essence, of basic subjects. The student will also choose an extra optional activity. The project is based on team work and initiates the students to the main problems of contemporary geography. The opportunity to do the course on Organic Chemistry is in line with the polyvalence of the first year of the bachelor programmes in Biology and in Chemistry.

The second year includes basic course complements (Physics, Statistics), related subject areas (Geology, Meteorology,...) and introductions to the different branches of geography and geographical techniques. The course on Political Economics may be substituted by a course on Microeconomics and Macroeconomics for those students who enrol on a minor in Economics.

The third year is specifically dedicated to the study of geography. A minimal core of knowledge is provided in the major via part of the courses in Human Geography and in Physical Geography. On the other hand, it is essential for all the students to have followed the three courses on Geographical Techniques. The reinforcing minor implies following these courses in their entirety. The programme may possibly be completed by choosing extra options, subject to the approval of the study advisor.

## GEOG1BA 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 *Majeure (150 credits)*

## o Sciences fondamentales

○ LMAT1101	Mathematics 1	Pedro Dos Santos Santana Forte Vaz	FR [q1] [30h+20h] [4 Credits] 🌐	X		
○ LMAT1102	Mathematics 2	Augusto Ponce	FR [q2] [30h+30h] [4 Credits] 🌐	X		
○ LPHY1101	Physics 1	Michel Crucifix Thierry Fichet	FR [q1] [30h+40h] [6 Credits] 🌐	X		
○ LPHY1102	Physics 2	Vincent Lemaitre	FR [q2] [54h+36h] [7 Credits] 🌐	X		
○ LPHY1203	Physics 3	Matthieu Génévriez Clément Lauzin	FR [q1] [50h+10h] [4 Credits] 🌐			X
○ LBIO1110	Life : diversity and evolution	Patrick Dumont	FR [q1] [30h+10h] [4 Credits] 🌐	X		
○ LBIO1117	Ecology I	Renate Wesselingh	FR [q2] [30h+10h] [4 Credits] 🌐	X		
○ LCHM1112	General Chemistry	Yaroslav Filinchuk	FR [q1] [30h+22.5h] [5 Credits] 🌐		X	

## o Thématiques géographiques

○ LGEO1332	Biogeography ■	Hans Van Dyck Renate Wesselingh	FR [q2] [30h+24h] [4 Credits] 🌐			X
○ LGEO1231	Physical geography	Veerle Vanacker	FR [q1] [30h+30h] [5 Credits] 🌐		X	
○ LGEO1331	Geomorphology ■	Marie Guns	FR [q2] [30h+30h] [5 Credits] 🌐			X
○ LGEO1221	Elements of human geography	Sophie Vanwambeke	FR [q1] [30h+30h] [5 Credits] 🌐	X		
○ LGEO1321	Geography of rural areas: land use, environment, nature ■	Patrick Meyfroidt	FR [q2] [30h+15h] [5 Credits] 🌐 > English-friendly			X
○ LGEO1322	Geography of urban spaces and flows ■	Marie-Laurence De Keersmaecker	FR [q1] [30h+15h] [5 Credits] 🌐			X
○ LPHY1365	Meteorology ■	Michel Crucifix Thierry Fichet	FR [q2] [37.5h+22.5h] [5 Credits] 🌐			X
○ LBIR1130	Introduction to Earth sciences	Pierre Delmelle (coord.) Sophie Opfergelt	FR [q2] [30h+30h] [5 Credits] 🌐	X		

## o Techniques et compétences géographiques

○ LGEO1241	Cartography and spatial data analysis	Patrick Meyfroidt Isabelle Thomas	FR [q2] [30h+30h] [5 Credits] 🌐	X		
○ LGEO1342	Geographical Information Systems (GIS)	Sophie Vanwambeke	FR [q1] [30h+30h] [5 Credits] 🌐		X	
○ LGEO1341	Statistical analysis in geography ■		FR [q1] [30h+30h] [5 Credits] 🌐			X
○ LGEO1343	Earth observation by satellite	Raphaël Rousseau (compensates Eric Lambin)	FR [q1] [30h+30h] [5 Credits] 🌐			X
○ LGEO1242	Cartographic projections and geodesy	Michel Crucifix	FR [q2] [30h+15h] [5 Credits] 🌐		X	
○ LBIO1282	Management and exploration of biological data	Renate Wesselingh	FR [q1] [20h+15h] [2 Credits] 🌐		X	
○ LBIO1283	Statistical principles and biological data analysis	Nicolas Schtickzelle	FR [q2] [30h+40h] [4 Credits] 🌐		X	

				Year		
				1	2	3
○ LBIR1271	Integrated project in programming and applied mathematics	Patrick Bogaert Emmanuel Hanert (coord.) Marnik Vanclooster	FR [q2] [30h+30h] [5 Credits] 🌐			X

### ○ Activités transversales et d'intégration

○ LGEO1232	The climate and its changes	Francesco Ragone Qiuzhen Yin (compensates) Kristof Van Oost	FR [q2] [30h] [5 Credits] 🌐			X
○ LGEO1251	Earth's history 🇺🇸	Veerle Vanacker	FR [q2] [30h+60h] [6 Credits] 🌐 > English-friendly			X
○ LGEO1111	Earth and society : perspectives from geography	Eric Lambin	FR [q2] [30h+15h] [5 Credits] 🌐	X		
○ LGEO1181	Geography in action	Patrick Meyfroidt	FR [q1+q2] [15h+30h] [4 Credits] 🌐	X		

### ○ Formation scientifique générale

○ LANG1861	English: reading and listening comprehension of scientific texts	Catherine Avery (coord.) Fanny Desterbecq Amandine Dumont (coord.) Marc Piwnik	EN [q2] [10h] [2 Credits] 🌐	X		
○ LANG1862	English: reading and listening comprehension of scientific texts 🇺🇸	Ahmed Adrieueche (coord.) Catherine Avery Ariane Halleux	EN [q1] [30h] [3 Credits] 🌐			X
○ LANG1863	English for Students in Sciences (Upper-Intermediate level)	Ahmed Adrieueche (coord.) Catherine Avery (coord.) Amandine Dumont (coord.) Sandrine Jacob (coord.) Nevin Serbest Florence Simon Françoise Stas (coord.)	EN [q1 or q2] [30h] [3 Credits] 🌐			X
○ LECGE1115	Political Economics	Rigas Oikonomou Gonzague Vannoorenberghe	FR [q1] [45h+15h] [5 Credits] 🌐	X		
○ LSC1120A	Philosophy		FR [q1] [45h] [2 Credits] 🌐			X

### ○ Sciences humaines

Choose one of the three teaching units.

⌘ LTECO2100	Sociétés, cultures, religions : Biblical readings	Hans Ausloos	FR [q1] [15h] [2 Credits] 🌐			X
⌘ LTECO2200	Societies-cultures-religions : Human Questions		FR [q1] [15h] [2 Credits] 🌐			X
⌘ LTECO2300	Societies, cultures, religions : Ethical questions	Marcela Lobo Bustamante	FR [q1] [15h] [2 Credits] 🌐			X

### ⌘ Optional courses

These credits are not counted within the 120 required credits.

⌘ LSST1001	IngénieursSud	Stéphanie Merle Jean-Pierre Raskin	FR [q1+q2] [15h+45h] [5 Credits] 🌐			X
⌘ LSST1002M	Information and critical thinking - MOOC		FR [q2] [30h+15h] [3 Credits] 🌐			X

### ○ Minor or additional module (30 credits)

L'étudiant-e complète sa formation en choisissant un approfondissement ou une mineure dans la liste proposée pour le Bachelier en sciences géographiques, orientation générale. Il ou elle répartit les unités d'enseignement dans le 2e et le 3e bloc annuel, de manière à ce que son programme annuel totalise 60 crédits.

Maximum 1 element(s)

## List of available minors

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The students can choose a minor from the list below or can opt for another minor on the University programme, based on a project to be elaborated together with the study advisor.

- > [Additional module in Geography : global change and transition management](#) [ en-prog-2024-appgeo ]
- > [Minor in Culture and Creation](#) [ en-prog-2024-mincucreea ]
- > [Minor in Scientific Culture](#) [ en-prog-2024-mincults ]
- > [Minor : Issues of Transition and Sustainable Development \(\\*\)](#) [ en-prog-2024-mindd ]
- > [Minor in Gender Studies](#) [ en-prog-2024-mingenre ]
- > [Minor in Economics \(open\)](#) [ en-prog-2024-minoeco ]
- > [Minor in Physics](#) [ en-prog-2024-minphys ]
- > [Minor in Statistics, Actuarial Sciences and Data Sciences](#) [ en-prog-2024-minstat ]
- > [Minor in numerical technologies and society](#) [ en-prog-2024-minstic ]
- > [Minor in entrepreneurship \(\\*\)](#) [ en-prog-2024-minmpme ]
- > [Minor in Urban Architecture](#) [ en-prog-2024-minarch ]
- > [Mineure Polytechnique](#) [ en-prog-2024-minpoly ]
- > [Minor in Development and Environment](#) [ en-prog-2024-mindenv ]
- > [Minor in Computer Sciences](#) [ en-prog-2024-minsinf ]
- > [Minor in Population and Development Studies](#) [ en-prog-2024-minsped ]

(\*) *This programme is the subject of access criteria*

## 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

<b>LANG1862</b>	"English: reading and listening comprehension of scientific texts" has prerequisite(s) LANG1861 <ul style="list-style-type: none"> <li>• LANG1861 - English: reading and listening comprehension of scientific texts</li> </ul>
<b>LGEO1251</b>	"Earth's history" has prerequisite(s) LBIR1130 <ul style="list-style-type: none"> <li>• LBIR1130 - Introduction to Earth sciences</li> </ul>
<b>LGEO1321</b>	"Geography of rural areas: land use, environment, nature" has prerequisite(s) LGEO1342 <ul style="list-style-type: none"> <li>• LGEO1342 - Geographical Information Systems (GIS)</li> </ul>
<b>LGEO1322</b>	"Geography of urban spaces and flows" has prerequisite(s) LBIO1283 <ul style="list-style-type: none"> <li>• LBIO1283 - Statistical principles and biological data analysis</li> </ul>
<b>LGEO1331</b>	"Geomorphology" has prerequisite(s) LGEO1251 AND LGEO1231 <ul style="list-style-type: none"> <li>• LGEO1251 - Earth's history</li> <li>• LGEO1231 - Physical geography</li> </ul>
<b>LGEO1332</b>	"Biogeography" has prerequisite(s) LBIO1117 <ul style="list-style-type: none"> <li>• LBIO1117 - Ecology I</li> </ul>
<b>LGEO1341</b>	"Statistical analysis in geography" has prerequisite(s) LBIO1283 <ul style="list-style-type: none"> <li>• LBIO1283 - Statistical principles and biological data analysis</li> </ul>
<b>LPHY1365</b>	"Meteorology" has prerequisite(s) LPHY1101 AND LPHY1102 <ul style="list-style-type: none"> <li>• LPHY1101 - Physics 1</li> <li>• LPHY1102 - Physics 2</li> </ul>

## 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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**GEOG1BA - 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 Majeure****o Sciences fondamentales**

○ LMAT1101	Mathematics 1	Pedro Dos Santos Santana Forte Vaz	FR [q1] [30h +20h] [4 Credits] 🌐
○ LMAT1102	Mathematics 2	Augusto Ponce	FR [q2] [30h +30h] [4 Credits] 🌐
○ LPHY1101	Physics 1	Michel Crucifix Thierry Fichet	FR [q1] [30h +40h] [6 Credits] 🌐
○ LPHY1102	Physics 2	Vincent Lemaitre	FR [q2] [54h +36h] [7 Credits] 🌐
○ LBIO1110	Life : diversity and evolution	Patrick Dumont	FR [q1] [30h +10h] [4 Credits] 🌐
○ LBIO1117	Ecology I	Renate Wesselingh	FR [q2] [30h +10h] [4 Credits] 🌐

**o Thématiques géographiques**

○ LGEO1221	Elements of human geography	Sophie Vanwambeke	FR [q1] [30h +30h] [5 Credits] 🌐
○ LBIR1130	Introduction to Earth sciences	Pierre Delmelle (coord.) Sophie Opfergelt	FR [q2] [30h +30h] [5 Credits] 🌐

**o Techniques et compétences géographiques**

○ LGEO1241	Cartography and spatial data analysis	Patrick Meyfroid Isabelle Thomas	FR [q2] [30h +30h] [5 Credits] 🌐
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**o Activités transversales et d'intégration**

○ LGEO1111	Earth and society : perspectives from geography	Eric Lambin	FR [q2] [30h +15h] [5 Credits] 🌐
○ LGEO1181	Geography in action	Patrick Meyfroid	FR [q1+q2] [15h +30h] [4 Credits] 🌐

**o Formation scientifique générale**

o LANG1861	English: reading and listening comprehension of scientific texts	Catherine Avery (coord.) Fanny Desterbecq Amandine Dumont (coord.) Marc Piwnik	EN [q2] [10h] [2 Credits]
o LECGE1115	Political Economics	Rigas Oikonomou Gonzague Vannoorenberghe	FR [q1] [45h +15h] [5 Credits]

**GEOG1BA - 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 Majeure****o Sciences fondamentales**

○ LCHM1112	General Chemistry	Yaroslav Filinchuk	(FR) [q1] [30h] +22.5h] [5 Credits] 🌐
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**o Thématiques géographiques**

○ LGEO1231	Physical geography	Veerle Vanacker	(FR) [q1] [30h] +30h] [5 Credits] 🌐
○ LGEO1321	Geography of rural areas: land use, environment, nature ■	Patrick Meyfroidt	(FR) [q2] [30h] +15h] [5 Credits] 🌐 > English-friendly

**o Techniques et compétences géographiques**

○ LGEO1342	Geographical Information Systems (GIS)	Sophie Vanwambeke	(FR) [q1] [30h] +30h] [5 Credits] 🌐
○ LGEO1242	Cartographic projections and geodesy	Michel Crucifix	(FR) [q2] [30h] +15h] [5 Credits] 🌐
○ LBIO1282	Management and exploration of biological data	Renate Wesselingh	(FR) [q1] [20h] +15h] [2 Credits] 🌐
○ LBIO1283	Statistical principles and biological data analysis	Nicolas Schtickzelle	(FR) [q2] [30h] +40h] [4 Credits] 🌐

**o Activités transversales et d'intégration**

○ LGEO1232	The climate and its changes	Francesco Ragone Qiuzhen Yin (compensates Kristof Van Oost)	(FR) [q2] [30h] [5 Credits] 🌐
○ LGEO1251	Earth's history ■	Veerle Vanacker	(FR) [q2] [30h] +60h] [6 Credits] 🌐 > English-friendly

**o Formation scientifique générale**

○ LANG1862	English: reading and listening comprehension of scientific texts ■	Ahmed Adriouche (coord.) Catherine Avery Ariane Halleux	(FR) [q1] [30h] [3 Credits] 🌐
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**o Minor or additional module**

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*L'étudiant-e complète sa formation en choisissant un approfondissement ou une mineure dans la liste proposée pour le Bachelier en sciences géographiques, orientation générale. Il ou elle répartit les unités d'enseignement dans le 2e et le 3e bloc annuel, de manière à ce que son programme annuel totalise 60 crédits.  
Maximum 1 élément(s)*

**GEOG1BA - 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 Majeure****o Sciences fondamentales**

○ LPHY1203	Physics 3	Matthieu Génévriez Clément Lauzin	(FR) [q1] [50h +10h] [4 Credits] 🌐
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**o Thématiques géographiques**

○ LGEO1332	Biogeography ■	Hans Van Dyck Renate Wesselingh	(FR) [q2] [30h +24h] [4 Credits] 🌐
○ LGEO1331	Geomorphology ■	Marie Guns	(FR) [q2] [30h +30h] [5 Credits] 🌐
○ LGEO1322	Geography of urban spaces and flows ■	Marie-Laurence De Keersmaecker	(FR) [q1] [30h +15h] [5 Credits] 🌐
○ LPHY1365	Meteorology ■	Michel Crucifix Thierry Fichet	(FR) [q2] [37.5h +22.5h] [5 Credits] 🌐

**o Techniques et compétences géographiques**

○ LGEO1341	Statistical analysis in geography ■		(FR) [q1] [30h +30h] [5 Credits] 🌐
○ LGEO1343	Earth observation by satellite	Raphaël Rousseau (compensates) Eric Lambin	(FR) [q1] [30h +30h] [5 Credits] 🌐
○ LBIR1271	Integrated project in programming and applied mathematics	Patrick Bogaert Emmanuel Hanert (coord.) Marnik Vanclooster	(FR) [q2] [30h +30h] [5 Credits] 🌐

**o Formation scientifique générale**

○ LANG1863	English for Students in Sciences (Upper-Intermediate level)	Ahmed Adriouche (coord.) Catherine Avery (coord.) Amandine Dumont (coord.) Sandrine Jacob (coord.) Nevin Serbest Florence Simon Françoise Stas (coord.)	(FR) [q1 or q2] [30h] [3 Credits] 🌐
○ LSC1120A	Philosophy		(FR) [q1] [45h] [2 Credits] 🌐

**o Sciences humaines**

Choose one of the three teaching units.

⌘ LTECO2100	Sociétés, cultures, religions : Biblical readings	Hans Ausloos	ES [q1] [15h] [2 Credits] 🌐
⌘ LTECO2200	Societies-cultures-religions : Human Questions		ES [q1] [15h] [2 Credits] 🌐
⌘ LTECO2300	Societies, cultures, religions : Ethical questions	Marcela Lobo Bustamante	ES [q1] [15h] [2 Credits] 🌐

**⌘ Optional courses**

These credits are not counted within the 120 required credits.

⌘ LSST1001	IngénieuxSud	Stéphanie Merle Jean-Pierre Raskin	ES [q1+q2] [15h +45h] [5 Credits] 🌐
⌘ LSST1002M	Information and critical thinking - MOOC		ES [q2] [30h +15h] [3 Credits] 🌐

**o Minor or additional module**

L'étudiant-e complète sa formation en choisissant un approfondissement ou une mineure dans la liste proposée pour le Bachelier en sciences géographiques, orientation générale. Il ou elle répartit les unités d'enseignement dans le 2e et le 3e bloc annuel, de manière à ce que son programme annuel totalise 60 crédits.

Maximum 1 element(s)

## GEOG1BA - 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:
  - not have obtained a secondary education diploma for more than 3 years maximum. Example: for an admission application for the academic year 2024-2025, you must have obtained your diploma during the academic years 2021-2022, 2022-2023 ou 2023-2024. In the French Community of Belgium, the academic year runs from September 14 to September 13
  - not already hold an undergraduate degree
- 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). A non-successful year will not be taken into consideration.

- 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 [DAES](#) or a certificate of successful completion of the [examination giving access to 1<sup>st</sup> cycle studies](#) when you submit your application

## 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](#).

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 \(non-residents\)](#).

- 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 \(non-residents\)](#).

- 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 \(non-residents\)](#).

- 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 \(non-residents\)](#).

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 \(fr\)](#).



## Teaching method

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En première année :

- Des séances sont organisées autour des questions de méthode de travail comme la manière d'aborder les différentes matières et la gestion du temps.
- Les monitorats permettent aux étudiants qui le souhaitent de faire le point sur les matières vues aux cours : les enseignants de chaque discipline répondent aux questions et réexpliquent les notions moins bien comprises.
- Des interrogations obligatoires intervenant dans la note finale de chaque matière sont organisées un mois après le début des cours au premier quadrimestre.

Pour les trois années :

- Les séances d'exercices et de laboratoire sont organisées en petits groupes et sont encadrés par des assistants. Certains travaux pratiques font l'objet de contrôles de connaissances en début de séance et de rapports à remettre en fin de séance.
- Des séjours sur le terrain et un projet permettent à l'étudiant de se confronter à des problèmes concrets et de s'exercer à y apporter des solutions.
- Des travaux personnels et/ou de groupe sont prévus pour certaines activités.
- Des sites internet sont associés à la plupart des cours : des informations utiles y sont déposées.

## Evaluation

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**The evaluation methods comply with the [regulations concerning studies and exams](#). More detailed explanation of the modalities specific to each learning unit are available on their description sheets under the heading "Learning outcomes evaluation method".**

Différentes modalités sont mises en oeuvre pour l'évaluation des connaissances et des compétences acquises au cours de la formation; elles sont adaptées aux types de prestations : évaluation continue notamment pour les exercices pratiques, évaluation des travaux personnels et de groupe, évaluation globale (écrite et/ou orale) durant les sessions d'examens.

## Mobility and/or Internationalisation outlook

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International mobility is recommended rather within the framework of master programmes. In special cases, however, it is possible to consider international mobility at the end of the bachelor's degree.

Moreover, participation in a short mobility can be envisaged at the end of the bachelor's degree in the framework of the Athens network <https://www.paristech.fr/fr/international/europe/athens>

## Possible trainings at the end of the programme

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Positioning of the programme within the University cursus

The bachelor's degree in Geographical Sciences entitles automatic access to the master's of Geographical Sciences, orientated towards the domains of applications, research or teaching.

Other Studies available upon completion of the programme

The bachelor's degree also entitles access to the masters of Economics, subject to having followed the corresponding minor.

## Contacts

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### Curriculum Management

Entity

Structure entity

Denomination

Faculty

Sector

Acronym

Postal address

SST/SC/GEOG

(GEOG)

Faculty of Science (SC)

Sciences and Technology (SST)

GEOG

Place Louis Pasteur 3 - bte L4.03.07

1348 Louvain-la-Neuve

Tel: [+32 \(0\) 10 47 28 73](tel:+32210472873) - Fax: [+32 \(0\) 10 47 28 77](tel:+32210472877)

Website

<https://uclouvain.be/fr/facultes/sc/geo>

Academic supervisor: [Marie-Laurence De Keersmaecker](#)

Jury

- President: [Marie-Laurence De Keersmaecker](#)
- Secretary and Study advisor: [Bas van Wesemael](#)

Useful Contact(s)

- Administrative manager for the student's annual program: [Nathalie Micha](#)
- Secretary of the School of geography: [Catherine De Roy](#)

