

**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 organisation of the space in which we live is the result of man's action on his natural environment. It is the fruit of a multitude of decisions, taken in the far or recent past, which have moulded our environment by adapting it to our needs, for better and for worse. These decisions have stimulated development just as they have created disequilibriums : increasingly productive world-wide agriculture, exchanges on every level and improvement in general well-being, but also pollution, deforestation, the green-house effect and over-population. Geography is the study of the mechanisms which have led to such phenomena, so that they be better understood and controlled.

The objective of this programme is to provide initiation into the three fundamental aspects of geography :

- to observe and describe the environment, for example thanks to the bases in computerised geographical data and sophisticated satellite earth observation techniques
- to understand and explain the processes observed, for example by constructing models which will enable the simulation thereof
- to intervene in the management of resources through territory reorganisation.

The student will develop knowledge and skills within the domain of geography and in particular in the study of the interactions between human activities, geographical space and the natural environment. These studies are approached as much from the point of view of human geography as of that of physical geography, in a significant effort to integrate these two perspectives. The programme likewise aims at the mastering of the geographical techniques essential for the study of these problems.

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

1. Analyser des problèmes géographiques complexes.

- 1.1. Définir la question de recherche.
- 1.2. Identifier les connaissances acquises et à acquérir en vue de répondre à la question de recherche.
- 1.3. Faire une recherche bibliographique dans le domaine, en français et en anglais.
- 1.4. Identifier une méthodologie rigoureuse afin de répondre à la question de recherche.
- 1.5. Collecter des données et construire la base de données.
- 1.6. Appliquer une méthode bien identifiée d'analyse des données.
- 1.7. Synthétiser les résultats.

2. Mobiliser des savoirs scientifiques.

- 2.1. Maîtriser et appliquer les concepts de base en sciences fondamentales dans les disciplines suivantes : mathématiques, chimie, physique, biologie animale et végétale et géologie.
- 2.2. Identifier et utiliser les concepts de base en sciences humaines dans les disciplines suivantes : économie politique, démographie, science politique et du développement, philosophie.
- 2.3. Intégrer et utiliser les fondements des sciences géographiques
  - en géographie physique : géomorphologie, biogéographie
  - en géographie humaine : géographie urbaine, des transports, rurale, de la santé et économique
  - en climatologie : bioclimatologie et météorologie.

3. Observer et décrire le milieu.

- 3.1. Analyser le paysage dans le cadre de séjours sur le terrain en Belgique.
- 3.2. Schématiser l'organisation du territoire grâce à la télédétection satellitaire.
- 3.3. Utiliser des bases de données spatiales.
- 3.4. Manipuler des logiciels d'information géographique et réaliser des cartes thématiques.
- 3.5. Evaluer la pertinence et la fiabilité des sources d'information.
- 3.6. Combiner les résultats de l'observation.

4. Comprendre et expliquer l'organisation spatiale des phénomènes naturels, des activités humaines et de leurs interactions.

- 4.1. Identifier les caractéristiques d'organisation spatiale, les composantes physiques et humaines et la manière avec laquelle elles interagissent.
- 4.2. Formuler des hypothèses de travail.
- 4.3. Appliquer des modèles (statistiques, numériques, conceptuels).
- 4.4. Tester les hypothèses par l'application, la calibration et la validation.
- 4.5. Faire preuve de rigueur, de précision et d'esprit critique dans l'interprétation des résultats.

5. Utiliser les techniques pour traiter d'une question de recherche.

- 5.1. Maîtriser et traiter les méthodes d'analyse statistique.
- 5.2. Interpréter et analyser des données satellitaires.
- 5.3. Constituer des banques de données spatiales.
- 5.4. Porter un regard critique sur les techniques utilisées.

6. Intégrer les multiples concepts de la géographie dans la réalisation d'un projet.

- 6.1. Faire des liens entre les différents aspects de la géographie.
- 6.2. Analyser les interactions entre l'homme et son environnement.
- 6.3. Participer un projet intégré, bien identifié, en équipe en intégrant les composantes environnementales et humaines.
7. Communiquer efficacement des résultats, des méthodes à différents types d'acteurs.
  - 7.1. Communiquer oralement et par écrit en français et en anglais (niveau B1).
  - 7.2. Communiquer les résultats d'un travail à des pairs.
  - 7.3. Communiquer et discuter des données, des méthodes et des résultats.
  - 7.4. Communiquer des résultats par la réalisation de cartes, de schémas et de graphiques.
  - 7.5. Maîtriser les outils informatiques indispensables à la 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 2023-2024
- ⊙ Not offered in 2023-2024 but offered the following year
- ⊕ Offered in 2023-2024 but not the following year
- △ ⊕ Not offered in 2023-2024 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 Géographie générale (15 credits)

○ LGEO1111	<a href="#">Earth and society : perspectives from geography</a>	Marie-Laurence De Keersmaecker Bas van Wesemael	[FR] [q2] [30h+15h] [4 Credits] 🌐	X		
○ LGEO1181	<a href="#">Geography in action</a>	Patrick Meyfroidt Bas van Wesemael	[FR] [q1+q2] [0h+45h] [4 Credits] 🌐	X		
○ LGEO1381	<a href="#">Belgium geography (field course + project)</a> ■	Veerle Vanacker	[FR] [q1] [60h+60h] [6 Credits] 🌐 > English-friendly			X

##### o Géographie humaine (15 credits)

○ LGEO1221	<a href="#">Elements of human geography</a>	Marie-Laurence De Keersmaecker	[FR] [q1] [30h+30h] [5 Credits] 🌐	X		
○ LGEO1323	<a href="#">Economic geography</a>	Justin Delloye	[FR] [q1] [22.5h+15h] [3 Credits] 🌐			X
○ LGEO1321	<a href="#">Human and Economic geography 1</a> ■	Patrick Meyfroidt Sophie Vanwambeke	[FR] [q2] [22.5h+22.5h] [4 Credits] 🌐			X
○ LGEO1322	<a href="#">Human and economic geography 2</a> ■	Marie-Laurence De Keersmaecker	[FR] [q1] [22.5h+15h] [3 Credits] 🌐			X

##### o Géographie physique (24 credits)

○ LGEO1231	<a href="#">Physical geography</a>	Bas van Wesemael	[FR] [q1] [30h+30h] [5 Credits] 🌐		X	
○ LGEO1232	<a href="#">The climate and its changes</a>	Francesco Ragone Kristof Van Oost	[FR] [q2] [30h] [5 Credits] 🌐		X	
○ LGEO1331	<a href="#">Geomorphology</a> ■	Bas van Wesemael	[FR] [q2] [30h+30h] [5 Credits] 🌐			X
○ LGEO1332	<a href="#">Biogeography</a> ■	Michel Baguette (compensates) Caroline Nieberding Renate Wesselingh	[FR] [q2] [30h+24h] [4 Credits] 🌐			X
○ LPHY1365	<a href="#">Meteorology</a> ■	Michel Crucifix Thierry Fichet	[FR] [q2] [37.5h+22.5h] [5 Credits] 🌐			X

### o Techniques en géographie (24 credits)

○ LGEO1241	Cartography and spatial data analysis	Patrick Meyfroidt Isabelle Thomas	PO [q2] [30h+30h] [5 Credits] 🌐	X		
○ LGEO1242	Cartographic projections and geodesy	Michel Crucifix	PO [q2] [30h+15h] [4 Credits] 🌐		X	
○ LGEO1342	Geographical Information Systems (GIS)	Sophie Vanwambeke	PO [q1] [30h+30h] [5 Credits] 🌐		X	
○ LGEO1341	Statistical analysis in geography 🟡	Sophie Vanwambeke	PO [q1] [30h+30h] [5 Credits] 🌐			X
○ LGEO1343	Earth observation by satellite	Eric Lambin	PO [q1] [30h+30h] [5 Credits] 🌐			X

### o Sciences de la terre (11 credits)

○ LBIR1130	Introduction to Earth sciences	Pierre Delmelle (coord.) Sophie Opfergelt	PO [q2] [30h+30h] [5 Credits] 🌐	X		
○ LGEO1251	Earth's history 🟡	Veerle Vanacker	PO [q2] [30h+60h] [6 Credits] 🌐 > English-friendly		X	

### o Mathématiques générales (14 credits)

○ LMAT1101	Mathematics 1	Pedro Dos Santos Santana Forte Vaz	PO [q1] [30h+20h] [4 Credits] 🌐	X		
○ LMAT1102	Mathematics 2	Augusto Ponce	PO [q2] [30h+30h] [4 Credits] 🌐	X		
○ LBIO1282	Management and exploration of biological data	Renate Wesselingh	PO [q1] [20h+15h] [2 Credits] 🌐		X	
○ LBIO1283	Statistical principles and biological data analysis	Nicolas Schtickzelle	PO [q2] [30h+40h] [4 Credits] 🌐		X	

### o Physique (17 credits)

○ LPHY1101	Physics 1	Michel Crucifix Thierry Fichet	PO [q1] [30h+40h] [6 Credits] 🌐	X		
○ LPHY1102	Physics 2	Vincent Lemaitre	PO [q2] [54h+36h] [7 Credits] 🌐	X		
○ LPHY1203	Physics 3	Mathieu Génévriez Clément Lauzin	PO [q1] [50h+10h] [4 Credits] 🌐		X	

### o Biologie (8 credits)

○ LBIO1110	Life : diversity and evolution	Michel Baguette (compensates Caroline Nieberding) Patrick Dumont	PO [q1] [30h+10h] [4 Credits] 🌐	X		
○ LBIO1117	Ecology I	Renate Wesselingh	PO [q2] [30h+10h] [4 Credits] 🌐	X		

### o Chimie (5 credits)

○ LCHM1111A	General chemistry	Benjamin Elias Alexandru Vlad	PO [q1] [45h+30h] [6 Credits] 🌐	X		
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### o Anglais (8 credits)

○ LANG1861	English: reading and listening comprehension of scientific texts	Catherine Avery (coord.) Fanny Desterbecq Amandine Dumont (coord.) Marc Pivnik	EN [q2] [10h] [2 Credits] 🌐	X		
○ LANG1862	English: reading and listening comprehension of scientific texts 🟡	Ahmed Adriouèche (coord.) Catherine Avery Amandine Dumont Ariane Halleux (coord.)	EN [q1] [30h] [3 Credits] 🌐		X	

				Year		
				1	2	3
○ 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.)	EN [q1 or q2] [30h] [3 Credits] 🌐			X

○ Sciences humaines (7 credits)

○ LECGE1115	Political Economics	Rigas Oikonomou Gonzague Vannoorenberghe	FR [q1] [45h+15h] [5 Credits] 🌐			X
○ LSC1120A	Philosophy	Charles Pence	FR [q1] [45h] [2 Credits] 🌐			X

○ Sciences religieuses (2 credits)

L'étudiant choisit 2 crédits parmi les cours suivants

⊗ LTECO2100	Sociétés, cultures, religions : Biblical readings	Hans Ausloos	FR [q1] [15h] [2 Credits] 🌐			X
⊗ LTECO2200	Societies-cultures-religions : Human Questions	Régis Burnet	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	IngénieuxSud	Stéphanie Merle Jean-Pierre Raskin (coord.)	FR [q1+q2] [15h+45h] [5 Credits] 🌐			X
⊗ LSST1002M	Information and critical thinking - MOOC	Myriam De Kesel Jean-François Rees	FR [q2] [30h+15h] [3 Credits] 🌐			X

○ Minor or additional module (30 credits)

L'étudiant complète sa formation en choisissant un approfondissement ou une mineure dans la liste proposée pour le bachelier en sciences géographiques, orientation générales. Il 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.

- > [Minor in Culture and Creation](#) [ en-prog-2023-mincucrea ]
- > [Minor in Scientific Culture](#) [ en-prog-2023-mincults ]
- > [Minor : Issues of Transition and Sustainable Development \(\\*\)](#) [ en-prog-2023-mindd ]
- > [Minor in Gender Studies](#) [ en-prog-2023-mingenre ]
- > [Additional module in Geography](#) [ en-prog-2023-appgeog ]
- > [Minor in Economics \(open\)](#) [ en-prog-2023-minoeco ]
- > [Minor in Physics](#) [ en-prog-2023-minphys ]
- > [Minor in Statistics, Actuarial Sciences and Data Sciences](#) [ en-prog-2023-minstat ]
- > [Minor in numerical technologies and society](#) [ en-prog-2023-minstic ]
- > [Minor in entrepreneurship \(\\*\)](#) [ en-prog-2023-minmpme ]
- > [Minor in Urban Architecture](#) [ en-prog-2023-minarch ]
- > [Mineure Polytechnique](#) [ en-prog-2023-minpoly ]
- > [Minor in Development and Environment](#) [ en-prog-2023-mindenv ]
- > [Minor in Computer Sciences](#) [ en-prog-2023-minsinf ]
- > [Minor in Population and Development Studies](#) [ en-prog-2023-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](https://uclouvain.be/fr/decouvrir/rgee.html) (<https://uclouvain.be/fr/decouvrir/rgee.html>).

### # 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>	"Histoire de la Terre" has prerequisite(s) LBIR1130 <ul style="list-style-type: none"> <li>• LBIR1130 - Introduction to Earth sciences</li> </ul>
<b>LGEO1321</b>	"Géographie rurale et de la santé" has prerequisite(s) LGEO1342 <ul style="list-style-type: none"> <li>• LGEO1342 - Geographical Information Systems (GIS)</li> </ul>
<b>LGEO1322</b>	"Géographie urbaine et des transports" has prerequisite(s) LBIO1283 <ul style="list-style-type: none"> <li>• LBIO1283 - Statistical principles and biological data analysis</li> </ul>
<b>LGEO1331</b>	"Géomorphologie" has prerequisite(s) LGEO1251 ET LGEO1231 <ul style="list-style-type: none"> <li>• LGEO1251 - Earth's history</li> <li>• LGEO1231 - Physical geography</li> </ul>
<b>LGEO1332</b>	"Biogéographie" has prerequisite(s) LBIO1117 <ul style="list-style-type: none"> <li>• LBIO1117 - Ecology I</li> </ul>
<b>LGEO1341</b>	"Analyse statistique de données géographiques" has prerequisite(s) LBIO1283 <ul style="list-style-type: none"> <li>• LBIO1283 - Statistical principles and biological data analysis</li> </ul>
<b>LGEO1381</b>	"Géographie de la Belgique (terrain + projet)" has prerequisite(s) LGEO1342 <ul style="list-style-type: none"> <li>• LGEO1342 - Geographical Information Systems (GIS)</li> </ul>
<b>LPHY1365</b>	"Météorologie" has prerequisite(s) LPHY1101 ET 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 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 2023-2024
- ⊖ Not offered in 2023-2024 but offered the following year
- ⊕ Offered in 2023-2024 but not the following year
- △ ⊕ Not offered in 2023-2024 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 Géographie générale**

○ LGEO1111	<a href="#">Earth and society : perspectives from geography</a>	Marie-Laurence De Keersmaecker Bas van Wesemael	(FR) [q2] [30h +15h] [4 Credits] 🌐
○ LGEO1181	<a href="#">Geography in action</a>	Patrick Meyfroidt Bas van Wesemael	(FR) [q1+q2] [0h +45h] [4 Credits] 🌐

**o Géographie humaine**

○ LGEO1221	<a href="#">Elements of human geography</a>	Marie-Laurence De Keersmaecker	(FR) [q1] [30h +30h] [5 Credits] 🌐
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**o Techniques en géographie**

○ LGEO1241	<a href="#">Cartography and spatial data analysis</a>	Patrick Meyfroidt Isabelle Thomas	(FR) [q2] [30h +30h] [5 Credits] 🌐
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**o Sciences de la terre**

○ LBIR1130	<a href="#">Introduction to Earth sciences</a>	Pierre Delmelle (coord.) Sophie Opfergelt	(FR) [q2] [30h +30h] [5 Credits] 🌐
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**o Mathématiques générales**

○ LMAT1101	<a href="#">Mathematics 1</a>	Pedro Dos Santos Santana Forte Vaz	(FR) [q1] [30h +20h] [4 Credits] 🌐
○ LMAT1102	<a href="#">Mathematics 2</a>	Augusto Ponce	(FR) [q2] [30h +30h] [4 Credits] 🌐

**o Physique**

○ LPHY1101	<a href="#">Physics 1</a>	Michel Crucifix Thierry Fichet	(FR) [q1] [30h +40h] [6 Credits] 🌐
○ LPHY1102	<a href="#">Physics 2</a>	Vincent Lemaitre	(FR) [q2] [54h +36h] [7 Credits] 🌐

### o Biologie

○ LBIO1110	Life : diversity and evolution	Michel Baguette (compensates Caroline Nieberding) Patrick Dumont	EN [q1] [30h +10h] [4 Credits] 🌐
○ LBIO1117	Ecology I	Renate Wesselingh	EN [q2] [30h +10h] [4 Credits] 🌐

### o Chimie

○ LCHM1111A	General chemistry	Benjamin Elias Alexandru Vlad	EN [q1] [45h +30h] [6 Credits] 🌐
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### o Anglais

○ LANG1861	English: reading and listening comprehension of scientific texts	Catherine Avery (coord.) Fanny Desterbecq Amandine Dumont (coord.) Marc Piwnik	EN [q2] [10h] [2 Credits] 🌐
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**GEOG1BA - 2ND ANNUAL UNIT**

- Mandatory
- ⊗ Optional
- △ Not offered in 2023-2024
- ⊖ Not offered in 2023-2024 but offered the following year
- ⊕ Offered in 2023-2024 but not the following year
- △ ⊕ Not offered in 2023-2024 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 Géographie physique**

○ LGEO1231	<a href="#">Physical geography</a>	Bas van Wesemael	FR [q1] [30h +30h] [5 Credits] 🌐
○ LGEO1232	<a href="#">The climate and its changes</a>	Francesco Ragone Kristof Van Oost	FR [q2] [30h] [5 Credits] 🌐

**o Techniques en géographie**

○ LGEO1242	<a href="#">Cartographic projections and geodesy</a>	Michel Crucifix	FR [q2] [30h +15h] [4 Credits] 🌐
○ LGEO1342	<a href="#">Geographical Information Systems (GIS)</a>	Sophie Vanwambeke	FR [q1] [30h +30h] [5 Credits] 🌐

**o Sciences de la terre**

○ LGEO1251	<a href="#">Earth's history</a> ■	Veerle Vanacker	FR [q2] [30h +60h] [6 Credits] 🌐 > English- friendly
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**o Mathématiques générales**

○ LBIO1282	<a href="#">Management and exploration of biological data</a>	Renate Wesselingh	FR [q1] [20h +15h] [2 Credits] 🌐
○ LBIO1283	<a href="#">Statistical principles and biological data analysis</a>	Nicolas Schtickzelle	FR [q2] [30h +40h] [4 Credits] 🌐



**o Physique**

○ LPHY1203	<a href="#">Physics 3</a>	Matthieu Génévriez Clément Lauzin	FR [q1] [50h +10h] [4 Credits] 🌐
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**o Anglais**

○ LANG1862	<a href="#">English: reading and listening comprehension of scientific texts</a> ■	Ahmed Adriouche (coord.) Catherine Avery Amandine Dumont Ariane Halleux (coord.)	FR [q1] [30h] [3 Credits] 🌐
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### o Sciences humaines

o LECGE1115	Political Economics	Rigas Oikonomou Gonzague Vannoorenberghe	5E [q1] [45h +15h] [5 Credits] 
o LSC1120A	Philosophy	Charles Pence	5E [q1] [45h] [2 Credits] 

### o Minor or additional module

*L'étudiant complète sa formation en choisissant un approfondissement ou une mineure dans la liste proposée pour le bachelier en sciences géographiques, orientation générales. Il 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 - 3RD ANNUAL UNIT**

- Mandatory
- ⊗ Optional
- △ Not offered in 2023-2024
- ⊖ Not offered in 2023-2024 but offered the following year
- ⊕ Offered in 2023-2024 but not the following year
- △ ⊕ Not offered in 2023-2024 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 Géographie générale**

○ LGEO1381	<a href="#">Belgium geography (field course + project)</a> ■	Veerle Vanacker	[FR] [q1] [60h +60h] [6 Credits] 🌐 > English- friendly
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**o Géographie humaine**

○ LGEO1323	<a href="#">Economic geography</a>	Justin Delloye	[FR] [q1] [22.5h +15h] [3 Credits] 🌐
○ LGEO1321	<a href="#">Human and Economic geography 1</a> ■	Patrick Meyfroidt Sophie Vanwambeke	[FR] [q2] [22.5h +22.5h] [4 Credits] 🌐
○ LGEO1322	<a href="#">Human and economic geography 2</a> ■	Marie-Laurence De Keersmaecker	[FR] [q1] [22.5h +15h] [3 Credits] 🌐

**o Géographie physique**

○ LGEO1331	<a href="#">Geomorphology</a> ■	Bas van Wesemael	[FR] [q2] [30h +30h] [5 Credits] 🌐
○ LGEO1332	<a href="#">Biogeography</a> ■	Michel Baguette (compensates Caroline Nieberding) Renate Wesselingh	[FR] [q2] [30h +24h] [4 Credits] 🌐
○ LPHY1365	<a href="#">Meteorology</a> ■	Michel Crucifix Thierry Fichet	[FR] [q2] [37.5h +22.5h] [5 Credits] 🌐

**o Techniques en géographie**

○ LGEO1341	<a href="#">Statistical analysis in geography</a> ■	Sophie Vanwambeke	[FR] [q1] [30h +30h] [5 Credits] 🌐
○ LGEO1343	<a href="#">Earth observation by satellite</a>	Eric Lambin	[FR] [q1] [30h +30h] [5 Credits] 🌐

## o Anglais

o 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.)	ES [q1 or q2] [30h] [3 Credits]
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## o Sciences humaines

### o Sciences religieuses

L'étudiant choisit 2 crédits parmi les cours suivants

⊗ LTECO2100	Sociétés, cultures, religions : Biblical readings	Hans Ausloos	ES [q1] [15h] [2 Credits]
⊗ LTECO2200	Societies-cultures-religions : Human Questions	Régis Burnet	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 (coord.)	ES [q1+q2] [15h +45h] [5 Credits]
⊗ LSST1002M	Information and critical thinking - MOOC	Myriam De Kesel Jean-François Rees	ES [q2] [30h +15h] [3 Credits]

## o Minor or additional module

L'étudiant complète sa formation en choisissant un approfondissement ou une mineure dans la liste proposée pour le bachelier en sciences géographiques, orientation générales. Il 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](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

- 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 2023-2024, you must have obtained your diploma during the academic years 2020-2021, 2021-2022 ou 2022-2023. 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](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>).

## 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 (<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".***

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

- Marie-Laurence De Keersmaecker
- Bas van Wesemael

Useful Contact(s)

- Nathalie Micha
- Catherine De Roy

