





## GEOG1BA - Teaching profile

### Learning outcomes

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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. Master and apply the main concepts of fundamental and human 49 Tm [mena in-



## 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

### ○ Majeure (150 credits)

#### ○ 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		

				Year		
				1	2	3
○ LBIO1283	Statistical principles and biological data analysis	Nicolas Schtickzelle	FR [q2] [30h+40h] [4 Credits]		x	
○ LBIR1271	Integrated project in programming and applied mathematics	Patrick Bogaert Emmanuel Hanert (coord.) Marnik Vanclooster	FR [q2] [30h+30h] [5 Credits]			x

o Activités transversales et d'intégration

○ LGEO1232	The climate and its changes	Michel Crucifix (compensates 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	Marie Scouart (compensates Eric Lambin)	FR [q2] [30h+15 1 0 0 0 cm 0 0 m 32.664001 0 1 31.664 1 1			



## 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>	"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 des espaces ruraux : utilisations des terres, environnement, nature" has prerequisite(s) LGEO1342 <ul style="list-style-type: none"> <li>• LGEO1342 - Geographical Information Systems (GIS)</li> </ul>
<b>LGEO1322</b>	"Géographie des espaces urbains et des flux" 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>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 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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**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]

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## **GEOG1BA - 2ND ANNUAL UNIT**

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- Mandatory
  - ✘ Optional
  - △ Not offered in 2024-2025
  - ⊖ Not offered in 2024-2025 but offered the following year
  - ⊕ Offered in 2024-2025 but not the following year
  - △ ⊕ Not offered in 2024-2025 or the following year
  - Activity with requisites
  - 🌐 Open to incoming exchange students
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**o Formation scientifique générale**

o LANG1862	English: reading and listening comprehension of scientific texts	Ahmed Adriouche (coord.) Catherine Avery Ariane Halleux (coord.) Adrien Kefer (compensates) Amandine Dumont	[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 element(s)*



**○ Sciences humaines**

Choose one of the three teaching units.

⊗ LTECO2100	Sociétés, cultures, religions : Biblical readings	Hans Ausloos	18 [q1] [15h] [2 Credits]
⊗ LTECO2200	Societies-cultures-religions : Human Questions	Pedro Dusabamahoro Valinho Gomes	18 [q1] [15h] [2 Credits]
⊗ LTECO2300	Societies, cultures, religions : Ethical questions	Marcela Lobo Bustamante	18 [q1] [15h] [2 Credits]

**⊗ Optional courses**

These credits are not counted within the 120 required credits.

⊗ LSST1001	IngénieuxSud	Stéphanie Merle Jean-Pierre Raskin	18 [q1+q2] [15h +45h] [5 Credits]
⊗ LSST1002M	Information and critical thinking - MOOC	Anne Bauwens (compensates Jean- François Rees) Myriam De Kesel	

## 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.





## 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
- 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 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

***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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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

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