



## Bachelor in Geography : General

The 2024-2025 programme is subject to change. It is provided for information purposes only.

### Programme mnemonic

BA-GEOG

### Studies level

Bachelor

### Learning language

french

### Schedule

office hours

### Studies category / subcategory

Sciences and technics / Sciences

### Campus

Plaine and Solbosch

## Programme objectives

Do you like travelling and maps? Do you like to understand the world around you? Are you interested in the relationship between human societies and their physical environment? Are you concerned about the major issues of our time, such as climate change, the biodiversity crisis, global development inequalities and social contrasts within cities? Are you looking for an education that can lead you to a wide variety of professions?

The Bachelor of Geographical Sciences provides a solid multidisciplinary training for the study of both the physical environment and human societies and the interactions between the former and the latter. Territories, whether urban or rural, are analysed with the help of maps and scientific methods to describe and understand their spatial organisation as well as the processes that govern and shape them (economic development, migratory flows, erosion phenomena, etc.).

Reading, analysis and production of maps, practical work, documentary research, excursions, oral presentations, etc., alone or in groups: through a variety of methods, geography training offers a solid education in the exact, natural, and human sciences. It covers the basic tools and knowledge needed to analyse the

spatial distribution of various phenomena and the interactions between human beings and their environment. They introduce from the first year several courses in both physical and human geography. In physical geography, the courses deal with the formation of territories and their evolution under the influence of climate. In human geography, the courses offer keys to reading the spatial distribution of people and their activities at different scales (from the city to the continent) and throughout the world. From the second year onwards, geomatics courses are added, starting with cartography in the second block and geographic information systems in the third.

## Programme's added value

Learning on a human scale: as most of the specific courses are given to small groups, they leave room for strong interaction between students, assistants and professors, which allows the use of active methods, the development of a critical perspective and leaves room for debate.

Active methods: based on concrete experiences and problem-questions revealing contemporary issues, students are gradually led to appropriate theories, experiment with methods and test models.

Open-source software: the methodological courses use open source software, allowing them to be used well beyond the university framework, in particular through the use of Geographic Information Systems (GIS).

Two excursions lasting several days, partly prepared by the students: one in Belgium, the other in Switzerland, they offer the opportunity to confront the field with a prior geographical analysis using the knowledge and analysis tools acquired during the training.

## Teaching methods

From the first block onwards, almost half of the training consists of discipline-specific courses; this proportion increases gradually in the second and third blocks.

From the 1st block, the ex-cathedra courses are supported by practical work, but also field trips (including a 4-day excursion in the 2nd and 3rd blocks alternating between Switzerland for physical geography and a tour of Belgium for human geography); the proportion of theoretical courses decreases from the 2nd block onwards to leave an important place to exercises, practical work and excursions. From the 2nd and especially the 3rd block, geography courses include personal research work. As most of the discipline-specific courses are given to small groups, the training includes excursions, fieldwork, group work, but also strong interaction between students, assistants, and professors. In the course of practical work and personal assignments, students learn to use specialised and free software to process geographic data (geographic information systems) or statistical data, as well as specialised libraries and map and atlas collections (map library).

## Succeed in your studies

### Choose

The information and guidance counsellors at the InfOR-études [<https://www.ulb.be/en/studies-info-desk-1>] service will help you choose your studies throughout the year.

### Succeed

Take part in preparatory courses [<https://www.ulb.be/en/studies-info-desk-1>] or get help to succeed [<https://www.ulb.be/en/studies-info-desk-1>], before or during your studies.

### Get help

Apply for financial aid, look for accommodation or a student job, get support [<https://www.ulb.be/fr/aides-services-et-accompagnement/aid-services-and-support-1>] for your specific needs.

## International/Openness

Mobility programs are primarily developed within the Master programs. They should however be planned in the course of the Bloc 3 of the Bachelor program.

## Job opportunities

Bachelors in geography can go on to a Master's degree in geographical sciences (human geography, territorial development, didactics or urban studies) or in environmental sciences and management (including physical geography).

By continuing the Bachelor's degree with a Master's degree in Geographical Sciences, graduates will have access to professions related to spatial planning, urban planning, the environment, geomatics and geomarketing, and will be able to answer questions such as Where to locate a new company, a new headquarters, a new infrastructure? How to map the territory and its evolution from aerial or satellite images? How to reconcile landscape or heritage protection with such development?

By extending the Bachelor's degree with a Master's degree in environmental sciences, the graduates will constitute a qualified workforce that is indispensable to the various national and international research programmes that today aim to reduce the uncertainties in our predictions of the future footprint of Man on our planet and to contribute to solutions for sustainable development at all spatial scales.

### Contacts

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 <http://www.ulb.be/facs/sciences/dges>

### Jury President

Éléonore WOLFF

### Jury Secretary

Frank PATTYN

# Bachelor in Geography : General

Reading, analysis and production of maps, practical work, documentary research, excursions, oral presentations, etc., alone or in groups: through a variety of methods, geography training offers a solid education in the exact, natural and human sciences. It covers the basic tools and knowledge needed to analyse the spatial distribution of various phenomena and the interactions between human beings and their environment. They introduce from the first year several courses in both physical and human geography, but also courses in geomatics. In physical geography, the courses deal with the formation of territories and their evolution under the influence of climate. In human geography, the courses offer keys to reading the spatial distribution of people and their activities at different scales (from the city to the continent) and throughout the world.

## Bloc 1 | BA-GEOG

### Cours obligatoires

- CHIM-F101** [Chimie générale](#) | Thierry VISART DE BOCARME (Coordinator), François RENIERS and Laurence RONGY  
 10 credits [lecture: 72h, tutorial classes: 36h, practical work: 12h, project: 24h] first and second terms French
- ENVI-F1001** [Sciences de la Terre, Environnement et Société](#) | Pierre REGNIER (Coordinator), Jean-Michel DECROLY and Frank PATTYN  
 5 credits [lecture: 48h, field trips: 12h] first and second terms French
- GEOG-F1001** [Introduction à la géographie urbaine et à l'urbanisme : des données à l'analyse](#) | Eléonore WOLFF (Coordinator) and Mathieu VAN CRIEKINGEN  
 10 credits [lecture: 24h, practical work: 60h, field trips: 8h, project: 60h] second term French
- GEOG-F102** [Géomorphologie structurale et dynamique](#) | Frank PATTYN (Coordinator)  
 5 credits [lecture: 20h, practical work: 24h, field trips: 8h, project: 10h] second term French
- GEOG-F103** [Fondements de la géographie humaine](#) | Jean-Michel DECROLY (Coordinator)  
 5 credits [lecture: 36h, project: 20h] second term French
- GEOG-F105** [Géologie de l'Europe](#) | Vinciane DEBAILLE (Coordinator) and Steeve BONNEVILLE  
 5 credits [lecture: 16h, field trips: 16h] second term
- MATH-F119** [Mathématiques](#)  
 10 credits [lecture: 60h, tutorial classes: 60h] academic year French
- PHYS-F104** [Physique 1](#) | Barbara CLERBAUX (Coordinator), Sébastien CLESSE and Michele SFERRAZZA  
 10 credits [lecture: 72h, tutorial classes: 36h] first and second terms French

# Bachelor in Geography : General

## Bloc 2 | BA-GEOG

### Cours obligatoires

BIOL-F102	<b>Biologie générale</b>   Patrick MARDULYN (Coordinator) and Etienne MEYLAN ⌚ 5 credits [lecture: 48h] 📅 second term 🗨️ French
ECON-D210	<b>Economie politique générale</b>   Gani ALDASHEV (Coordinator) ⌚ 5 credits [lecture: 24h] 📅 second term 🗨️ French
GEOG-F203	<b>Climatologie et glaciologie</b>   Frank PATTYN (Coordinator) ⌚ 5 credits [lecture: 24h, practical work: 24h, project: 10h] 📅 second term 🗨️ French
GEOG-F207	<b>Excursions de géographie I</b>   Jean-Michel DECROLY (Coordinator), François FRIPIAT and Frank PATTYN ⌚ 5 credits [field trips: 32h, project: 10h] 📅 second term 🗨️ French
GEOG-F210	<b>Géographie de l'Europe</b>   Gilles VAN HAMME (Coordinator) ⌚ 5 credits [lecture: 24h] 📅 second term 🗨️ French
GEOG-F315	<b>Analyses et représentations spatiales</b>   Eléonore WOLFF (Coordinator) ⌚ 5 credits [lecture: 24h, practical work: 36h, project: 70h] 📅 first and second terms 🗨️ French
GEOL-F2001	<b>Introduction à la minéralogie et à la pédologie</b>   Steeve BONNEVILLE (Coordinator) and Thomas DROUET DE LA THIBAUDERIE ⌚ 5 credits [lecture: 28h, practical work: 12h, field trips: 12h] 📅 first term 🗨️ French
INFO-F206	<b>Informatique</b>   Olivier MARKOWITCH (Coordinator) ⌚ 5 credits [lecture: 24h, tutorial classes: 24h, project: 12h] 📅 first term 🗨️ French
LANG-F201	<b>Anglais scientifique I</b>   Alexander CORNFORD (Coordinator) ⌚ 5 credits [tutorial classes: 48h] 📅 second term 🗨️ English
MATH-F316	<b>Biogéostatistiques</b>   Thomas VERDEBOUT (Coordinator) ⌚ 5 credits [lecture: 30h, tutorial classes: 24h] 📅 second term 🗨️ French

### Formation complémentaire en sciences exactes

*One course chosen from the following*

CHIM-F1101 (optional)	<b>Chimie générale</b>   Thierry VISART DE BOCARME (Coordinator), François RENIERS and Laurence RONGY ⌚ 5 credits [lecture: 12h, tutorial classes: 12h, practical work: 36h] 📅 second term
MATH-F115 (optional)	<b>Compléments d'analyse et algèbre linéaire</b>   Joel FINE (Coordinator) and Michele D'ADDERIO ⌚ 5 credits [lecture: 30h, tutorial classes: 24h] 📅 second term 🗨️ French
PHYS-F205 (optional)	<b>Physique 2</b>   Michel TYTGAT (Coordinator) and Michele SFERRAZZA ⌚ 5 credits [lecture: 24h, tutorial classes: 14h, practical work: 22h] 📅 first term 🗨️ French

### Options dirigées

*A total of five credits chosen from the following*

## Sciences de l'environnement

- CHIM-F102 (optional) **Chimie organique 1** | Cécile MOUCHERON (Coordinator)  
⌚ 5 credits [lecture: 30h, tutorial classes: 18h] 📅 second term 🗨 French
- CHIM-F1101 (optional) **Chimie générale** | Thierry VISART DE BOCARME (Coordinator), François RENIERS and Laurence RONGY  
⌚ 5 credits [lecture: 12h, tutorial classes: 12h, practical work: 36h] 📅 second term
- GEOL-F104 (optional) **Les temps géologiques : concepts et méthodes** | Sandra ARNDT (Coordinator) and Goulven Gildas LARUELLE  
⌚ 5 credits [lecture: 24h, practical work: 24h] 📅 second term 🗨 French
- GEOL-F204 (optional) **Sédimentologie** | Xavier DEVLEESCHOUWER (Coordinator)  
⌚ 5 credits [lecture: 24h, practical work: 12h, field trips: 24h] 📅 second term 🗨 French
- GEOL-F211 (optional) **Introduction à la pétrologie** | Nadine MATTIELLI (Coordinator)  
⌚ 5 credits [lecture: 12h, practical work: 34h, field trips: 16h] 📅 second term 🗨 French
- GEOL-F307 (optional) **Cycle de la matière et de l'énergie dans les systèmes géologiques** | Pierre REGNIER (Coordinator) and Steeve BONNEVILLE  
⌚ 5 credits [lecture: 36h, tutorial classes: 24h] 📅 second term 🗨 French
- MATH-F115 (optional) **Compléments d'analyse et algèbre linéaire** | Joel FINE (Coordinator) and Michele D'ADDERIO  
⌚ 5 credits [lecture: 30h, tutorial classes: 24h] 📅 second term 🗨 French
- PHYS-F105 (optional) **La structure de l'univers** | Alain JORISSEN (Coordinator) and Rodrigo ALVAREZ  
⌚ 5 credits [lecture: 48h] 📅 first term 🗨 French
- PHYS-F205 (optional) **Physique 2** | Michel TYTGAT (Coordinator) and Michele SFERRAZZA  
⌚ 5 credits [lecture: 24h, tutorial classes: 14h, practical work: 22h] 📅 first term 🗨 French
- TRAN-F201 (optional) **Introduction aux enjeux de la durabilité** | Wouter ACHTEN (Coordinator) and Chiara ARMENI  
⌚ 5 credits [lecture: 24h, project: 24h] 📅 second term 🗨 French

## Sciences sociales

- ETHI-F201 (optional) **Sciences, éthique, histoire et société** | Grégoire Wallenborn (Coordinator) and Eric MURAILLE  
⌚ 5 credits [lecture: 48h] 📅 second term 🗨 French
- HIST-B115 (optional) **Histoire de l'Epoque contemporaine** | Pieter LAGROU (Coordinator)  
⌚ 5 credits [lecture: 48h] 📅 first term 🗨 French
- HIST-D102 (optional) **Critique historique appliquée aux sciences sociales** | Didier VIVIERS (Coordinator)  
⌚ 5 credits [lecture: 24h] 📅 second term 🗨 French
- HIST-S101 (optional) **Introduction à l'histoire globale du capitalisme** | Kenneth BERTRAMS (Coordinator)  
⌚ 5 credits [lecture: 36h] 📅 second term 🗨 French
- POLI-D101 (optional) **Introduction à la science politique** | Pascal DELWIT (Coordinator)  
⌚ 5 credits [lecture: 30h] 📅 first term 🗨 French
- SOCA-D101 (optional) **Anthropologie sociale et culturelle I** | Joël Noret (Coordinator)  
⌚ 5 credits [lecture: 36h] 📅 first term 🗨 French
- SOCA-D201 (optional) **Anthropologie sociale et culturelle II** | David BERLINER (Coordinator)  
⌚ 5 credits [lecture: 24h, tutorial classes: 24h] 📅 second term 🗨 French
- SOCA-D308 (optional) **Anthropologie économique** | Olivia Ange (Coordinator)  
⌚ 5 credits [lecture: 24h] 📅 first term 🗨 French
- SOCA-D494 (optional) **Sociologie de la ville** | Pierre LANNOY (Coordinator)  
⌚ 5 credits [lecture: 24h] 📅 first term 🗨 French
- TRAN-F201 (optional) **Introduction aux enjeux de la durabilité** | Wouter ACHTEN (Coordinator) and Chiara ARMENI  
⌚ 5 credits [lecture: 24h, project: 24h] 📅 second term 🗨 French

# Bachelor in Geography : General

## Bloc 3 | BA-GEOG

### Cours obligatoires

- BIOL-F305 **Botanique, phytogéographie et ethnoécologie** | Farid DAHDOUH-GUEBAS (Coordinator)  
 5 credits [lecture: 24h, practical work: 15h, field trips: 12h] second term English/French
- GEOG-F211 **Systèmes d'information géographique et projections** | Eléonore WOLFF (Coordinator) and Michele D'ADDERIO  
 5 credits [lecture: 24h, practical work: 36h] second term French
- GEOG-F307 **Excursions de géographie II** | Jean-Michel DECROLY (Coordinator), François FRIPIAT and Frank PATTYN  
 5 credits [field trips: 32h, project: 40h] second term French
- GEOG-F313 **Géographie régionale** | Jean-Michel DECROLY (Coordinator), Gilles VAN HAMME and Eléonore WOLFF  
 10 credits [lecture: 48h, practical work: 12h, project: 80h] first and second terms French
- GEOG-F318 **Projet de recherche et communication scientifique** | Jean-Michel DECROLY (Coordinator)  
 5 credits [practical work: 12h, project: 60h] first and second terms French
- GEOG-S101 **Géographie économique** | Gilles VAN HAMME (Coordinator)  
 5 credits [lecture: 48h] second term French
- GEOL-F309 **Géophysique et tectonophysique** | Corentin CAUDRON (Coordinator), Thomas LECOQ and Frank PATTYN  
 5 credits [lecture: 32h, tutorial classes: 12h, field trips: 16h] first term French
- LANG-F301 **Anglais scientifique II** | Hugh MURPHY (Coordinator) and Alexander CORNFORD  
 5 credits [tutorial classes: 48h] first term English
- SOCA-D304 **Démographie** | Jean-Michel DECROLY (Coordinator)  
 5 credits [lecture: 24h, tutorial classes: 12h] first term French



































### Options dirigées

10 crédits à choisir en Bloc 3 (15 crédits sur le cycle)

*10 to 15 credits chosen from the following*

#### Sciences de l'environnement

- BIOL-F201 (optional) **Evolution et diversité des eucaryotes : botanique** | Pierre Jacques MEERTS (Coordinator)  
 5 credits [lecture: 42h] academic year French
- BIOL-F309 (optional) **Ecologie** | Isabelle GEORGE (Coordinator)  
 5 credits [lecture: 30h, practical work: 30h] first term French
- CHIM-F102 (optional) **Chimie organique 1** | Cécile MOUCHERON (Coordinator)  
 5 credits [lecture: 30h, tutorial classes: 18h] second term French
- CHIM-F1101 (optional) **Chimie générale** | Thierry VISART DE BOCARME (Coordinator), François RENIERS and Laurence RONGY  
 5 credits [lecture: 12h, tutorial classes: 12h, practical work: 36h] second term
- GEOL-F104 (optional) **Les temps géologiques : concepts et méthodes** | Sandra ARNDT (Coordinator) and Goulven Gildas LARUELLE  
 5 credits [lecture: 24h, practical work: 24h] second term French

<p>GEOL-F204 (optional)</p>	<p><b>Sédimentologie</b>   Xavier DEVLEESCHOUWER (Coordinator)          5 credits [lecture: 24h, practical work: 12h, field trips: 24h]  second term  French</p>
<p>GEOL-F211 (optional)</p>	<p><b>Introduction à la pétrologie</b>   Nadine MATTIELLI (Coordinator)          5 credits [lecture: 12h, practical work: 34h, field trips: 16h]  second term  French</p>
<p>GEOL-F307 (optional)</p>	<p><b>Cycle de la matière et de l'énergie dans les systèmes géologiques</b>   Pierre REGNIER (Coordinator) and Steeve BONNEVILLE          5 credits [lecture: 36h, tutorial classes: 24h]  second term  French</p>
<p>MATH-F115 (optional)</p>	<p><b>Compléments d'analyse et algèbre linéaire</b>   Joel FINE (Coordinator) and Michele D'ADDERIO          5 credits [lecture: 30h, tutorial classes: 24h]  second term  French</p>
<p>PHYS-F105 (optional)</p>	<p><b>La structure de l'univers</b>   Alain JORISSEN (Coordinator) and Rodrigo ALVAREZ          5 credits [lecture: 48h]  first term  French</p>
<p>PHYS-F205 (optional)</p>	<p><b>Physique 2</b>   Michel TYTGAT (Coordinator) and Michele SFERRAZZA          5 credits [lecture: 24h, tutorial classes: 14h, practical work: 22h]  first term  French</p>
<p>TRAN-F201 (optional)</p>	<p><b>Introduction aux enjeux de la durabilité</b>   Wouter ACHTEN (Coordinator) and Chiara ARMENI          5 credits [lecture: 24h, project: 24h]  second term  French</p>
<p><b>Sciences sociales</b></p>	
<p>ETHI-F201 (optional)</p>	<p><b>Sciences, éthique, histoire et société</b>   Grégoire Wallenborn (Coordinator) and Eric MURAILLE          5 credits [lecture: 48h]  second term  French</p>
<p>HIST-B115 (optional)</p>	<p><b>Histoire de l'Epoque contemporaine</b>   Pieter LAGROU (Coordinator)          5 credits [lecture: 48h]  first term  French</p>
<p>HIST-D102 (optional)</p>	<p><b>Critique historique appliquée aux sciences sociales</b>   Didier VIVIERS (Coordinator)          5 credits [lecture: 24h]  second term  French</p>
<p>HIST-S101 (optional)</p>	<p><b>Introduction à l'histoire globale du capitalisme</b>   Kenneth BERTRAMS (Coordinator)          5 credits [lecture: 36h]  second term  French</p>
<p>POLI-D101 (optional)</p>	<p><b>Introduction à la science politique</b>   Pascal DELWIT (Coordinator)          5 credits [lecture: 30h]  first term  French</p>
<p>SOCA-D101 (optional)</p>	<p><b>Anthropologie sociale et culturelle I</b>   Joël Noret (Coordinator)          5 credits [lecture: 36h]  first term  French</p>
<p>SOCA-D201 (optional)</p>	<p><b>Anthropologie sociale et culturelle II</b>   David BERLINER (Coordinator)          5 credits [lecture: 24h, tutorial classes: 24h]  second term  French</p>
<p>SOCA-D308 (optional)</p>	<p><b>Anthropologie économique</b>   Olivia Ange (Coordinator)          5 credits [lecture: 24h]  first term  French</p>
<p>SOCA-D494 (optional)</p>	<p><b>Sociologie de la ville</b>   Pierre LANNOY (Coordinator)          5 credits [lecture: 24h]  first term  French</p>
<p>TRAN-F201 (optional)</p>	<p><b>Introduction aux enjeux de la durabilité</b>   Wouter ACHTEN (Coordinator) and Chiara ARMENI          5 credits [lecture: 24h, project: 24h]  second term  French</p>

