

GEOG2M - Introduction

Introduction

GEOG2M - Teaching profile

Learning outcomes

The organization of the space in which we live results from the impact of man on his natural surroundings. It comes from a great many decisions, taken long ago or recently, which have shaped our environment by adapting it to our needs, for better and for worse. These decisions have stimulated development and also created imbalances : more productive world agriculture, industrial concentrations, urbanization, trade at every level, increase in average well-being, but also delocalization, pollution, damage to land, deforestation, erosion of biodiversity or climate change. Geography studies the mechanisms which have led to all these effects, in order to control them better.

The objective of the training with a **research focus** is an introduction to the three fundamental aspects of the work of a geographer:

- to observe and describe the environment, especially with computerized databases and advanced satellite observation technology and monitoring the state of the environment through different kinds of measurements ;
- to understand and explain the processes that have been observed, especially by building models which enable them to be simulated;
- to manage resources through land development.



Students will develop skills in the field of geography and especially in the study of the interactions between human activities, geographical space and the natural environment. This is done from the perspective of both human and physical geography: it is important to bring them together. The training also provides students with the geographical techniques necessary for the study of this.

The **research focus**

Year

1 2

o **Module 1 : Methods for geographical and spatial analyses (10 credits)**

○ LGEO2211	Advanced statistical methods in geography	Christian Hafner	PS [q1] [30h+30h] [5 Credits] 	x	x
○ LGEO2185	Advanced geo-processing	Antoine Stevens (compensates Kristof Van Oost)	PS [q2] [30h+30h] [5 Credits] 	x	x

o **Module 2: Physical geography and global change (10 credits)**

○ LGEO2140	Global environmental challenges in the Anthropocene	Veerle Vanacker Nathan Vandermaelen (compensates Kristof Van Oost)	PS [q2] [30h+30h] [5 Credits] 	x	x
○ LGEO2240	Tectonic geomorphology	Veerle Vanacker	PS [q1] [30h+30h] [5 Credits] 		

LIST OF FOCUSES

Given the importance of the reform of the Master of Geographical Sciences program, from 2024-25 onwards, the full program for students choosing the didactic option will be a transitional program.

- > [Research Focus](#) [en-prog-2024-geog2m-lgeog200a]
- > [Teaching Focus](#) [en-prog-2024-geog2m-lgeog200d]

RESEARCH FOCUS [30.0]

- 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

o Content:

○ LGEO2997	Séminaire d'encadrement du mémoire	Michel Crucifix	FR [q1] [15h] [5 Credits] 🌐	X	
○ LGEO2998	Thesis tutorial	Ahmed Adriouèche Qiuzhen Yin	EN [q2] [15h] [3 Credits] 🌐		X

o Module 5 : Global change and sustainability (22 credits)

○ LGEO2120	Applied geomorphology		EN [q1] [30h+30h] [4 Credits] 🌐	X	X
○ LGEO2130	Fundamentals of geographic and environmental modelling	Eric Deleersnijder Sophie Vanwambeke	EN [q2] [30h+30h] [5 Credits] 🌐	X	X
○ LGEO2220	History of geography	Eric Lambin	FR [q1] [22.5h] [4 Credits] 🌐	X	
○ LGEO2210	Shaping sustainable urban areas		FR [q1] [30h] [4 Credits] △ 🌐 > English-friendly		

TEACHING FOCUS [30.0]

IMPORTANT NOTE: In accordance with article 138 para. 4 of the decree of 7 November 2013 concerning higher education and the academic organisation of studies, teaching practice placements will not be assessed in the September session. Students are required to make every effort to successfully complete the teaching practice in the June session, subject to having to retake the year.

- 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 \(objectives, methods, evaluation...\)](#)

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Year

1 2

o Content:



Cours au choix [30.0]

COURS AU CHOIX [30.0]

- Mandatory
- ⊗ Optional
- △ Not offered in 2024-2025
- ⊖ Not offered in 2024-2025 but offered in previous years
- ⊕ 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, ...)

Click on the

informations (objectives, methods, evaluation...)

Year

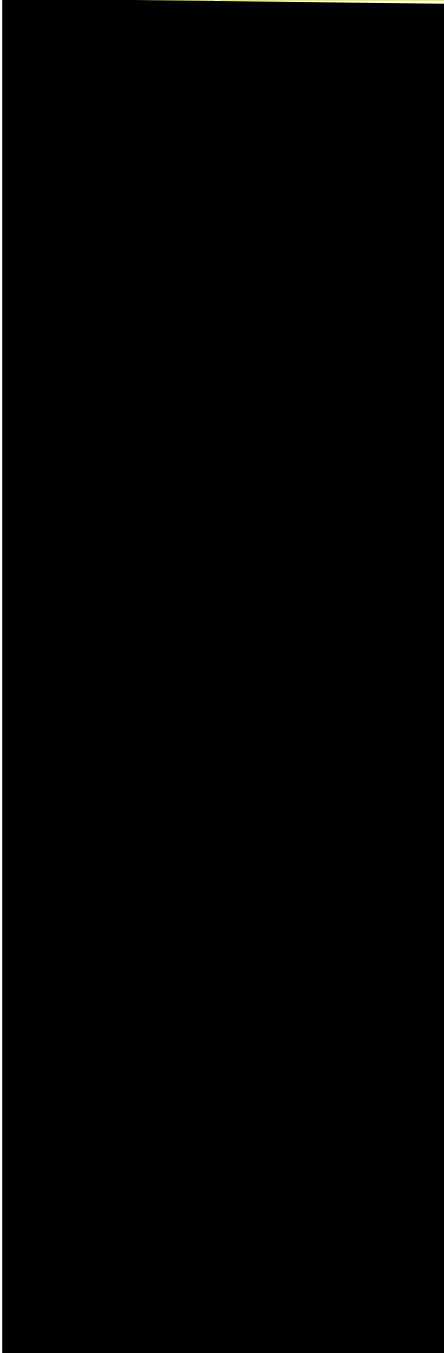
1 2

o Content:

o Cours au choix spécifiques à l'option Géographie

L'étudiant.e choisit au minimum 20 crédits de cours au choix.

⊗ LGEO2170 Field Excursion



Pré-requis

None

	Eric Lambin	FR [q2] [60h+30h] [5 Credits]	🌐		X	X
	Sophie Vanwambeke	FR [q2] [60h+30h] [5 Credits]	⊕ 🌐		X	X
		EN [q1] [0h+30h] [3 Credits]	🌐		X	X

				Year	
				1	2
⌘ LSPRI2020	Relations internationales contemporaines	Simon Desplanque Michel Liegeois	[q1] [30h+15h] [5 Credits]	x	x

⌘ Autres cours au choix

Sous réserve de l'accord du jury, l'étudiant.e peut intégrer à son programme des cours de 2ème ou 3ème bloc annuel de bachelier qui n'auraient pas été suivis durant le bachelier, ainsi que des cours dispensés dans d'autres universités. L'étudiant.e s'assurera auprès du titulaire du ou des cours choisi(s) qu'il est autorisé à le(s) suivre.



Supplementary classes

To access this Master, students must have a good command of certain subjects. If this is not the case, in the first annual block of their Masters programme, students must take supplementary classes chosen by the faculty to satisfy course prerequisites.

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

○ Enseignements supplémentaires

Course prerequisites

There are no prerequisites between course units (CUs) for this programme, i.e. the programme activity (course unit, CU) whose learning outcomes are to be certified and the corresponding credits awarded by the jury before registration in another CU.

The programme's courses and learning outcomes

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

GEOG2M - Information

Access Requirements

Master course admission requirements are defined by the French Community of Belgium Decree of 7 November 2013 defining the higher education landscape and the academic organisation of courses.

General and specific admission requirements for this programme must be satisfied at the time of enrolling at the university.

Unless explicitly mentioned, the bachelor's, master's and licentiate degrees listed in this table or on this page are to be understood as those issued by an institution of the French, Flemish or German-speaking Community, or by the Royal Military Academy.

In the event of the divergence between the different linguistic versions of the present conditions, the French version shall prevail.

SUMMARY

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- > [Specific access requirements](#)
- > [University Bachelors](#)
- > [Non university Bachelors](#)
- > [Holders of a 2nd cycle University degree](#)
- > [Holders of a non-University 2nd cycle degree](#)
- > [Access based on validation of professional experience](#)
- > [Access based on application](#)
- > [Admission and Enrolment Procedures for general registration](#)

Specific access requirements

In addition to the access conditions described below, candidates will have to provide proof of a sufficient command of the French language (level B1 of the CEFR, Common European Framework of Reference for Languages).

Students wishing to access the didactic purpose must provide proof of a level C1 of the CEFR.

Students who wish to be admitted on the basis of a dossier (see tables below) are invited to consult the [criteria for the evaluation of application](#).

University Bachelors

Diploma	Special Requirements	Access	Remarks
UCLouvain Bachelors			
Bachelor in Geography : General		Direct access	
Bachelor in Physics	Si l'étudiant a suivi la Titre inconnu:Imingeo	Direct access	In some cases, the UCLouvain Enrolment Office, after reviewing their online enrolment or re-enrolment application, will ask the students concerned to provide an enrolment authorisation from the faculty/ school.
Bachelor in Engineering	Si l'étudiant a suivi la Titre inconnu:Imingeo	Direct access	
Others Bachelors of the French speaking Community of Belgium			
		Direct access	
Bachelors of the Dutch speaking Community of Belgium			
		Direct access	
Foreign Bachelors			
		Access based on application	

Non university Bachelors

> Find out more about [links](#) to the university

Diploma	Access	Remarks
BA en agronomie, orientation agro-industries et biotechnologies - crédits supplémentaires entre 45 et 60 BA en agronomie, orientation agronomie des régions chaudes - crédits supplémentaires entre 45 et 60 BA en agronomie, orientation environnement - crédits supplémentaires entre 45 et 60 BA en agronomie, orientation forêt et nature - crédits supplémentaires entre 45 et 60 BA en agronomie, orientation systèmes alimentaires durables et locaux - crédits supplémentaires entre 45 et 60 BA en agronomie, orientation techniques et gestion agricoles - crédits supplémentaires entre 45 et 60 BA en agronomie, orientation techniques et gestion horticolas - crédits supplémentaires entre 45 et 60 BA en agronomie, orientation technologie animale - crédits supplémentaires entre 45 et 60	Les enseignements supplémentaires éventuels peuvent être consultés dans le module complémentaire .	Type court

Holders of a 2nd cycle University degree

Diploma	Special Requirements	Access	Remarks
"Licenciés"		Direct access	
Masters		Direct access	

Holders of a non-University 2nd cycle degree

Access based on validation of professional experience

> It is possible, under certain conditions, to use one's personal and professional experience to enter a university course without having the required qualifications. However, validation of prior experience does not automatically apply to all courses. Find out more about [Validation of priori experience](#).

Access based on application

Access based on application : access may be granted either directly or on the condition of completing additional courses of a maximum of 60 ECTS credits, or refused.

The first step in the procedure is to submit a file online (see <https://uclouvain.be/en/study/inscriptions/futurs-etudiants.html>).

Students who wish to be admitted on the basis of a dossier are invited to consult the [criteria for the evaluation of application](#).

Admission and Enrolment Procedures for general registration

Specific professional rules

Successful completion of the master's course with **teaching focus** leads to the award of the master's degree with teaching focus and the title of secondary school education specialist.

The [Réforme des Titres et Fonctions](#) ("Titles and Functions Reform"), in force since 1 September 2016, is intended to harmonise the titles, functions and pay scales of basic and secondary education professionals in French Community of Belgium networks.

It also aims to guarantee the priority of preferred titles over minimum titles and to establish a regime for titles in short supply.

AESS holders can learn which functions they can carry out and the pay scales from which they can benefit by [clicking here](#).

The university cannot be held responsible for any problems that students may encounter at a later date with a view to a teaching appointment in the French Community of Belgium.

Teaching method

The teaching strategy takes its inspiration from the idea of "taking responsibility for one's own learning" and offers a wide range of learning situations. The courses are focused on problems in society: environmental changes, mobility, urbanization, globalization and developing countries. Activities such as seminars and integrated exercises are carried out in advanced areas of geographical research. Ability to use advanced methods of geographical analysis is an important objective of the training: geographical modeling, geographical information systems and satellite teledetection.

Practical work gives students the opportunity of dealing with concrete problems and finding solutions to them, often in small groups. The computer rooms with special software for geographical analysis are always open to students. In the first year of the Master, the field work consists of a week of supervised exercises in the Alps or Spain. This is compulsory in the first year of the Master. Students who choose a research focus must do a second field course in the second year.

Students doing the teaching focus may do advanced teaching in mathematics, physics or geography.

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".

Students will mainly be assessed on the basis of individual work (e.g. reading, consultation of databases and bibliographic references, writing monographs and reports, presentation of seminars, dissertation and work placement). Where necessary, students will also be assessed on how much they have learned from lectures. As far as possible, there will be continuous assessment, including regular 'open book examinations'. Certain activities will not be given a precise mark but will be officially certified. Assessment of the dissertation is in two stages : a 'progress report' at the end of the first year of the Master and the final presentation.

Mobility and/or Internationalisation outlook

Students are strongly encouraged to take advantage of the Erasmus or Mercator exchange schemes outside Belgium, or to study at KULeuven.

It is possible to take courses in English. Not only will this help UCL students to become better acquainted with the language, but will also enable Erasmus students from abroad to take a semester of courses in English.

Advanced courses are given by many visiting lecturers from different foreign institutions and some Belgian ones. These are mostly in English.

Possible trainings at the end of the programme

Quelle que soit la finalité, le master en sciences géographiques donne directement accès au doctorat en sciences.

Un étudiant peut obtenir une autre finalité du même master en 30 crédits.

Contacts

Curriculum Management

Entity

Structure entity	SST/SC/GEOG
Denomination	(GEOG)
Faculty	Faculty of Science (SC)
Sector	Sciences and Technology (SST)
Acronym	GEOG
Postal address	Place Louis Pasteur 3 - bte L4.03.07 1348 Louvain-la-Neuve Tel: +32 (0) 10 47 28 73 - Fax: +32 (0) 10 47 28 77 https://uclouvain.be/fr/facultes/sc/geo
Website	

Academic supervisor: [Sophie Vanwambeke](#)

Jury

- President: [Thierry Fichet](#)
- Secretary: [Veerle Vanacker](#)
- Study advisor: [Patrick Meyfroidt](#)

Useful Contact(s)

- Administrative manager for the student's annual program: [Catherine De Roy](#)

