

At Louvain-la-Neuve - 60 credits - 1 year - Day schedule - In French

Dissertation/Graduation Project : **YES** - 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: **GEOG2M1** - Francophone Certification Framework: 7

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GEOG2M1 - Introduction

Introduction

GEOG2M1 - 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, the greenhouse effect or overpopulation. Geography studies the mechanisms which have led to all these effects, in order to control them better.

The objective of the training 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 ;
- to understand and explain the processes that have been observed, especially by applying models which enable them to be simulated;
- to learn certain concepts in resource management 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 Master in Geography (60 credits) is clearly different from the 120 credit Master in Geography ; although it only takes a year of study, it is inspired by the same objectives, but aims in a more modest way to build on and refine the geographical training in the bachelor's degree.

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. Choisir la méthode d'analyse des données.
 - 1.6. Synthétiser les résultats.
 - 1.7. Mener à bien un travail de recherche utilisant la méthode d'analyse.
2. Mobiliser des savoirs scientifiques spécialisés dans les domaines de la géographie physique et humaine

- 5.1. Utiliser des méthodes d'analyse statistique.
- 5.2. Interpréter et analyser des données satellitaires.
- 5.3. Manipuler des banques de données spatiales et réaliser des cartes thématiques.
- 5.4. Utiliser des logiciels de traitement de données statistiques.
- 5.5. Porter un regard critique sur les techniques utilisées.
6. Communiquer efficacement des résultats, des méthodes à différents types d'acteurs.
 - 6.1. Communiquer oralement et par écrit en français et en anglais (niveau B2)
 - 6.2. Communiquer les résultats d'un travail à des pairs.
 - 6.3. Communiquer et discuter des données, des méthodes et des résultats.
 - 6.4. Communiquer des résultats par la réalisation de cartes, de schémas et de graphiques.
 - 6.5. Maîtriser les outils informatiques indispensables à la communication.

Programme structure

The programme comprises core subjects of 50 credits and 10 credits for optional activities.

GEOG2M1 Programme

Detailed programme by subject

CORE COURSES [60.0]

- 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...)

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

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

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

● LGEO2140	Global environmental challenges in the Anthropocene	Veerle Vanacker Veerle Vanacker (compensates Kristof Van Oost)	EN [q2] [30h+30h] [5 Credits] 🌐
● LGEO2240	LGEO2185		

○ LGEO2230	Medical and health geography	Sophie Vanwambeke	FR [q1] [30h+30h] [5 Credits] 🌐
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○ Module 4 : Integration (10 credits)

○ LGEO2160	Integrated project in sustainability	Patrick Meyfroidt Raphaël Rousseau	EN [q1] [30h+30h] [4 Credits] 🌐
○ LGEO2250	Mesures de terrain en géographie	François Jonard (compensates Kristof Van Oost)	FR [q2] [30h+30h] [4 Credits] 🌐

○ Philosophie (2 credits)

Choose one of the following teaching units:

⊗ LSC2001	Introduction to contemporary philosophy	Peter Verdée Peter Verdée (compensates Charles Pence)	FR [q2] [30h] [2 Credits] 🌐
⊗ LSC2220	Philosophy of science	Alexandre Guay	EN [q2] [30h] [2 Credits] 🌐
⊗ LFILO2003E	Ethics in the Sciences and technics (sem)	Alexandre Guay (compensates Charles Pence) Hervé Jeanmart René Rezsohazy	FR [q2] [15h+15h] [2 Credits] 🌐
⊗ LTHEO2840	Science and Christian faith	Benoît Bourguine Paulo Jorge Dos Santos Rodrigues	FR [q1] [15h] [2 Credits] 🌐

○ Terrain en géographie

⊗ LGEO2170	Field Excursion	Eric Lambin	FR [q2] [60h+30h] [5 Credits] 🌐
⊗ LGEO2270			

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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The programme's courses and learning outcomes

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.

Non university Bachelors

> Find out more about [links](#)

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 integration between human and physical geography is emphasized. 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. The Master includes at least a week of field work abroad (since the 60 credit course lasts only a year).

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' atmark uuvain

