

GEOG2M1

2016 - 2017

Master [60] in Geography : General

At Louvain-la-Neuve - 60 credits - 1 year - Day schedule - In frenchDissertation/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: **Faculté des sciences (SC)**Programme code: **geog2m1** - Francophone Certification Framework: 7**Table of contents**

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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

2.1. Maitriser et utiliser, dans le domaine de la géographie physique :

- La géomorphologie tectonique
- La géomorphologie expérimentale
- La géomorphologie appliquée
- La biogéographie
- La géologie et les sciences de la terre

2.2. Maitriser et utiliser, dans le domaine de la géographie humaine :

- La géographie urbaine
- La géographie des transports
- La géographie économique
- La géographie rurale
- L'économie spatiale et régionale
- La géographie médicale et de la santé
- Les interactions entre la mondialisation et l'environnement

3. Structurer le territoire à partir de la combinaison de différents types de données géographiques et statistiques.

- 3.1. Analyser le paysage, dans le cadre de séjours éventuels sur le terrain en Belgique et à l'étranger.
- 3.2. Modéliser l'organisation du territoire grâce à des bases de données géographiques informatisées.
- 3.3. Evaluer la pertinence et la fiabilité des sources d'information.
- 3.4. Combiner les informations issues 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. Développer 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 caractériser et représenter le processus géographique étudié.

- 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.

[> Core courses](#) [en-prog-2016-geog2m1-lgeog211t.html]

GEOG2M1 Detailed programme

Programme by subject

CORE COURSES [60.0]

○ Mandatory

△ Courses not taught during 2016-2017

⊕ Periodic courses taught during 2016-2017

⊗ Optional

⊖ Periodic courses not taught during 2016-2017

■ Activity with requisites

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

○ LGEO2140	Advanced physical geography	Kristof.Vanoost (coord.) Veerle.Vanacker	30h+30h	5 Credits	2q
○ LGEO2230	Géographie médicale et de la santé	Sophie.Vanwambeke	30h+30h	5 Credits	1q
○ LGEO2995	Mémoire			15 Credits	2q
○ Module de géographie humaine (8 credits)					
○ LGEO2110	Mondialisation, développement et environnement	Eric.Lambin	30h+30h	5 Credits	1q

○ LGEO2210	Shaping sustainable urban spaces	Marie-Laurence.Dekeersmaecker Yves.Hanin	30h	3 Credits	1q
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○ Module de géographie physique (10 credits)

○ LGEO2120	Applied geomorphology	Bas.Vanwesemael	30h+30h	5 Credits	1q
○ LGEO2240	Tectonic geomorphology	Veerle.Vanacker	30h+30h	5 Credits	1q

○ Module de travaux d'intégration (4 credits)

⊗ LGEO2170	Field Excursion	Eric.Lambin	60h+30h	4 Credits	2q ⊗
⊗ LGEO2270	Terrain II en géographie	Sophie.Vanwambeke	60h+30h	4 Credits	2q ⊕

○ Philosophie (2 credits)

un cours à choisir parmi

⊗ LSC2001	Introduction to contemporary philosophy	Delia.Popa	30h	2 Credits	2q
⊗ LSC2220	Philosophy of science	Alexandre.Guay	30h	2 Credits	2q
⊗ LFILO2003E	Ethics in the Sciences and technics (sem)	Herve.Jeanmart NOBODY Rene.Rezsohazy	15h+15h	2 Credits	2q

○ Optional courses (11 credits)

Le programme est à compléter par des cours au choix de manière à atteindre au moins 60 crédits. L'attention des étudiants est attirée par la liste suivante : NB Le cours GEO 1242 ne peut être choisi que par des étudiants qui n'ont pas suivi les cours d'approfondissement en géographie pendant leur bachelier. Ce cours devrait faire partie du curriculum d'un géographe.

⊗ LBIR1343	Environmental Economics	Frederic.Gaspard	37.5h+7.5h	4 Credits	2q
⊗ LAUCE3011	Acteurs, territoires et contextes de développement	Bernard.Decleve Aniss.Mezoued Chloe.Salembier	50h	5 Credits	1q
⊗ LGEO1242	Mathematical Geography	Jean-Pascal.Vanpersele	30h+15h	4 Credits	2q
⊗ LECGE1228	Regional Economics	Florian.Mayneris	30h+10h	3 Credits	2q
⊗ LGEO2130	Geographic modelling	Eric.Deleersnijder Sophie.Vanwambeke	30h+30h	5 Credits	2q
⊗ LGEO2220	History of geography	Eric.Lambin	22.5h	3 Credits	1q
⊗ LGEO2160	Integrated exercise in geography I	Isabelle.Thomas Bas.Vanwesemael	30h+30h	4 Credits	1q
⊗ LGEO2250	Mesures de terrain en géographie	Kristof.Vanoost	30h+30h	5 Credits	2q
⊗ LGEO2211	Advanced statistical methods in geography	Christian.Hafner	30h+30h	5 Credits	1q
⊗ LGEO2185	Advanced geo-processing	Kristof.Vanoost	30h+30h	5 Credits	2q

The programme's courses and learning outcomes


For each UCL training programme, a [reference framework of learning outcomes](#) specifies the competences expected of every graduate on completion of the programme. You can see the contribution of each teaching unit to the programme's reference framework of learning outcomes in the document "In which teaching units are the competences and learning outcomes in the programme's reference framework developed and mastered by the student?"

The document is available by clicking [this link](#) after being authenticated with UCL account.

GEOG2M1 - Information

Admission

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

En plus de remplir les conditions d'accès décrites ci-dessous, les candidats devront apporter la preuve d'une maîtrise suffisante de la langue française (niveau B1 du [Cadre européen commun de référence](#))  .

- [University Bachelors](#)
- [Non university Bachelors](#)
- [Holders of a 2nd cycle University degree](#)
- [Holders of a non-University 2nd cycle degree](#)
- [Adults taking up their university training](#)
- [Personalized access](#)

University Bachelors

Diploma	Special Requirements	Access	Remarks
UCL Bachelors			
		Direct access	
Bachelor in Physics	Si l'étudiant a suivi la Minor in Geography [30.0](unknown URL)	Direct access	
Bachelor in Engineering	Si l'étudiant a suivi la Minor in Geography [30.0](unknown URL)	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			
		Direct access	

Non university Bachelors

Diploma	Access	Remarks
> Find out more about links to the university		
> BA en sciences agronomiques - type long	Accès au master moyennant ajout de maximum 60 crédits d'enseignements supplémentaires obligatoires au programme. Voir 'Module complémentaire'	Type long
> BA en agronomie	Accès au master moyennant ajout de maximum 60 crédits d'enseignements supplémentaires obligatoires au programme. Voir 'Module complémentaire'	Type court
> BA en sciences industrielles - type long	Accès au master moyennant ajout de maximum 60	Type long

crédits d'enseignements supplémentaires obligatoires au programme. Voir 'Module complémentaire'

— 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

Diploma	Access	Remarks
> Find out more about links to the university		
> MA en sciences agronomiques > MA en sciences de l'ingénieur industriel en agronomie > MA en sciences de l'ingénieur industriel, finalités constructions et géomètre > MA en sciences industrielles, finalité géomètre	Accès direct au master moyennant ajout éventuel de 15 crédits max	Type long

— Adults taking up their university training

> See the website [Valorisation des acquis de l'expérience](#)

It is possible to gain admission to all masters courses via the validation of professional experience procedure.

— Personalized access

Reminder : all Masters (apart from Advanced Masters) are also accessible on file.

— Admission and Enrolment Procedures for general registration

Supplementary classes

To enrol for this Masters, the student must have a good command of certain subjects. If this is not the case, they must add preparatory modules to their Master's programme.

● Mandatory

△ Courses not taught during 2016-2017

⊕ Periodic courses taught during 2016-2017

⊗ Optional

⊖ Periodic courses not taught during 2016-2017

■ Activity with requisites

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

● LGEO2130	Geographic modelling	Eric.Deleersnijder Sophie.Vanwambeke	30h+30h	5 Credits	2q
● LGEO2160	Integrated exercise in geography I	Isabelle.Thomas Bas.Vanwesemael	30h+30h	4 Credits	1q
● LGEO2185	Advanced geo-processing	Kristof.Vanoost	30h+30h	5 Credits	2q
● LGEO2211	Advanced statistical methods in geography	Christian.Hafner	30h+30h	5 Credits	1q
● LGEO2220	History of geography	Eric.Lambin	22.5h	3 Credits	1q
● LGEO2250	Mesures de terrain en géographie	Kristof.Vanoost	30h+30h	5 Credits	2q
○	Supplementary classes			Credits	

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' at the end of the first year of the Master and the final presentation.

Possible trainings at the end of the programme

The only university training directly accessible from the 60 credit Master in Geography is teacher training (30 credits).

It is also possible, in one year, to gain the 120 credit Master in Geography. This gives access to doctorates and Advanced Masters. Students's attention is drawn to the fact that this progression will require the submission of two dissertations.

Contacts

Curriculum Management

Entite de la structure GEOG

Acronyme	GEOG
Dénomination	Ecole de géographie
Adresse	Place Louis Pasteur, 3 bte L4.03.07 1348 Louvain-la-Neuve Tél 010 47 28 73 - Fax 010 47 28 77
Site web	http://www.uclouvain.be/geo
Secteur	Secteur des sciences et technologies (SST)
Faculté	Faculté des sciences (SC)
Commission de programme	Ecole de géographie (GEOG)

Academic Supervisor : [Sophie Vanwambeke](#)

Jury

Présidente :

Secrétaire : [Bas van Wesemael](#)

Usefull Contacts

Gestionnaire de l'admission et de l'inscription : [Viviane Libois](#)

Secrétaire de l'Ecole de géographie : [Mila Mihaylova](#)

