

GEOG2M

2013 - 2014

Master [120] in Geography : General

At Louvain-la-Neuve - 120 credits - 2 years - 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: **geog2m** - European Qualifications Framework (EQF): 7**Table of contents**

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GEOG2M - Introduction

GEOG2M - Admission

For the specific conditions of this program : refer to the French version

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

GEOG2M - Information

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** prepares students for a range of different jobs in the public and private sector or in the voluntary field as well as for being a researcher.

The **teaching focus** is a specially adapted programme which focuses on teaching at the higher levels of secondary education.

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

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.

GEOG2M - Contacts

Curriculum Managment

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	https://www.uclouvain.be/geo
Secteur	Secteur des sciences et technologies (SST)
Faculté	Faculté des sciences (SC)
Commission de programme	Ecole de géographie (GEOG)

Jury

Présidente : **Marie-Laurence De Keersmaecker**

Secrétaire : **Sophie Vanwambeke**

Usefull Contacts

Secrétaire de l'Ecole de géographie : **Monique Descamps**

GEOG2M - Detailed programme

Programme structure

The programme comprises core subjects of 60 credits, 30 credits for the focus (research or teaching) and 30 credits for optional subjects.

Whatever the focus or the options chosen, the programme of this master shall totalize 120 credits, spread over two years of studies each of 60 credits.

Core study

[> Tronc commun](#) [en-prog-2013-geog2m-lgeog210t.html]

Focuses

[> Research focus](#) [en-prog-2013-geog2m-lgeog200a]

[> Teaching focus](#) [en-prog-2013-geog2m-lgeog200d]

Programme by subject

Core courses [90.0]

○ Mandatory

△ Courses not taught during 2013-2014

⊕ Periodic courses taught during 2013-2014

⊗ Optional

⊖ Periodic courses not taught during 2013-2014

⊞ Two years course

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

Year

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○ Module de géographie humaine (8 credits)

Course ID	Course Title	Instructor	Hours	Credits	1	2
○ LGEO2110	Géographie des pays en voie de développement	Eric Lambin	30h+30h	5 Credits	1q	x
○ LGEO2210	Advanced human geography	Dominique Peeters	30h	3 Credits		x

○ Module de géographie physique (10 credits)

○ LGEO2120	Experimental geomorphology	Kristof Van Oost, Bas van Wesemael (coord.)	30h+30h	5 Credits		x
○ LGEO2240	Tectonic geomorphology	Veerle Vanacker	30h+30h	5 Credits		x x

○ Module de techniques d'analyse géographique (10 credits)

○ LGEO2130	Geographic modelling	Eric Deleersnijder, Sophie Vanwambeke	30h+30h	5 Credits	2q	x
⊗ LGEO2140	Advanced physical geography	Kristof Van Oost (coord.), Veerle Vanacker	30h+30h	5 Credits		x
⊗ LGEO2150	Aides à la décision en géographie	Dominique Peeters, Isabelle Thomas	30h+30h	5 Credits	2q	x

o Philosophie (2 credits)

un cours à choisir parmi

⊗ LSC2001	Introduction to contemporary philosophy	Nathalie Frogneux	30h	2 Credits	2q Δ	x	x
⊗ LSC2220	Philosophy of science	Alexandre Guay	30h	2 Credits	2q	x	x
⊗ LFILO2003E	Ethics in the Sciences and technics (sem)	N.		2 Credits		x	x

o Mémoire (30 credits)

o LGEO2999	Mémoire	N.		22 Credits			x
o LGEO2998A	Thesis tutorial I	N.	7.5h	5 Credits		x	
o LGEO2998B	Thesis tutorial II	N.	7.5h	3 Credits			x

o Cours au choix (30 credits)

Les étudiants choisissent 5 crédits en 1ère année et 25 crédits en 2ème. Les cours au choix sont regroupés en modules thématiques de 10 crédits. Les étudiants ont le choix entre trois de ces modules ou un séjour Erasmus. La liste des cours ci-dessous n'est pas exhaustive. D'autres cours offerts à l'UCL et dans le programme de master en sciences géographiques de l'ULB peuvent être choisis.

⊗ Cours complémentaires en géographie (10 credits)

Ces cours devraient faire partie du curriculum d'un géographe. Au cas où l'étudiant n'a pas suivi ces cours, les suivants sont vivement conseillés.

⊗ LGEO1242	Mathematical Geography	Michel Crucifix, Jean-Pascal van Ypersele de Strihou (coord.)	30h+15h	4 Credits	2q	x	x
⊗ LGEO2140	Advanced physical geography	Kristof Van Oost (coord.), Veerle Vanacker	30h+30h	5 Credits		x	x
⊗ LGEO2150	Aides à la décision en géographie	Dominique Peeters, Isabelle Thomas	30h+30h	5 Credits	2q	x	x
⊗ LGEO1321	Human and Economic geography 1	Sophie Vanwambeke	25h+25h	4 Credits	2q	x	x
⊗ LGEO1322	Human and economic geography 2	Marie-Laurence De Keersmaecker, Isabelle Thomas	25h+25h	4 Credits	2q	x	x
⊗ LGEO1323	Human and economic geography (3)	Dominique Peeters	25h+25h	4 Credits	2q	x	x
⊗ LGEO1331	Geomorphology	Bas van Wesemael, Veerle Vanacker	30h+30h	5 Credits	2q	x	x
⊗ LGEO1332	Biogeography	Caroline Nieberding, Philippe Vernon (compensates Caroline Nieberding), Renate Wesselingh	45h+24h	5 Credits	2q	x	x
⊗ LPHY1365	Meteorology	Michel Crucifix, Thierry Fichet, Jean-Pascal van Ypersele de Strihou	37.5h +22.5h	5 Credits	1q	x	x

⊗ Ecologie (10 credits)

⊗ LBIO1351	Ecology of individuals and populations	Thierry Hance, Marie-Jeanne Holveck (compensates Caroline Nieberding), Anne-Laure Jacquemart, Caroline Nieberding	50h	4 Credits	1q	x	x
⊗ LBOE2121	Biodiversité des biomes terrestres	Caroline Nieberding	24h	3 Credits	2q	x	x
⊗ LBOE2160	Ecologie des interactions	Thierry Hance, Anne-Laure Jacquemart	24h	2 Credits	1q	x	x
⊗ LBOE2140	Ecologie du paysage	Hans Van Dyck	24h+24h	4 Credits	1q	x	x

Year

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⊗ Climatologie et Sciences de la terre (10 credits)

⊗ LGEO2290	Travaux dirigés de modélisation climatique	Michel Crucifix, Hugues Goosse	15h	3 Credits		X	X
⊗ LPHY2150	Physique et dynamique de l'atmosphère et de l'océan I	Michel Crucifix, Thierry Fichefet	45h+9h	6 Credits	1q	X	X
⊗ LPHY2151	Physique et dynamique de l'atmosphère et de l'océan II	Michel Crucifix, Thierry Fichefet	30h	5 Credits	2q	X	X
⊗ LPHY2153	Introduction à la physique du système climatique et à sa modélisation	Hugues Goosse, Jean-Pascal van Ypersele de Strihou	30h+15h	5 Credits	1q	X	X
⊗ LPHY2252	Compléments de modélisation du système climatique	Michel Crucifix, Thierry Fichefet, Hugues Goosse	45h+7.5h	6 Credits	2q	X	X
⊗ LPHY2160	Internal Geophysics of the Earth and planets	Nicolas Bergeot, Véronique Dehant (coord.), Pascal Rosenblatt	30h	5 Credits	1q	X	X
⊗ LPHY2504	Séminaire de climatologie physique et de géophysique	Thierry Fichefet	0h+15h	2 Credits		X	X
⊗ LBIRE2103	General hydrology	Charles Bielders, Marnik Vanclooster (compensates Charles Bielders), Marnik Vanclooster (coord.)	30h +22.5h	5 Credits	1q	X	X
⊗ LCHM1311	Environmental chemistry	Shaun Carl	30h	3 Credits	2q	X	X
⊗ LULBG2400	Le système Terre et ses interactions (ULB)	N.		4 Credits		X	X
⊗ LULBG2408	Modélisation en géographie physique (ULB)	N.		2 Credits		X	X
⊗ LULBG2410	Les changements climatiques des derniers 100000 ans (ULB)	N.		6 Credits		X	X

⊗ Géographie économique (10 credits)

⊗ LECGE1222	Microeconomics	Pierre Dehez, François Maniquet	45h+15h	5 Credits	1q	X	X
⊗ LECGE1212	Macroeconomics	Fabio Mariani	45h+15h	5 Credits	1q	X	X
⊗ LECGE1216	Growth and Development	David De la Croix	30h	3 Credits	1q	X	X
⊗ LECGE1228	Regional Economics	Florian Mayneris	30h+10h	5 Credits	2q	X	X
⊗ LECON2041	International Trade	Fabio Mariani	30h	5 Credits	2q	X	X
⊗ LGEO2001	Séminaire résidentiel inter-universitaire et international d'analyse spatiale	N.		10 Credits		X	X

⊗ Population et développement (10 credits)

⊗ LDVLP2315	Socio-political analysis of development	Joseph Amougou (compensates Isabel Yépez Del Castillo), Isabel Yépez Del Castillo	30h	5 Credits	1q	X	X
⊗ LDVLP2325	Geopolitics of natural resources	Vincent Legrand	30h	5 Credits	1q	X	X
⊗ LECON2342	Development theories	Andreia Lemaître, Marthe Nyssens	30h	5 Credits	2q	X	X

⊗ Aménagement du territoire (10 credits)

⊗ LAUCE3011	Acteurs, territoires et contextes de développement	Bernard Declève (coord.), Julie Denef, Yves Hanin	50h	5 Credits	1q	X	X
⊗ LAUCE2930	Processus territoriaux et modèles de développement	Marie-Laurence De Keersmaecker, Yves Hanin	30h	3 Credits	1q	X	X

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						1	2
⊗ LAUCE2950	Systèmes de décision en urbanisme et développement territorial	Bernard Declève, Yves Hanin, Benoît Périlleux, Jean-Pol Van Reybroeck	45h	4 Credits	2q	x	x
⊗ LSOC2090	Sociology of the City	Mathieu Berger	30h	5 Credits	1q	x	x

⊗ Gestion de l'environnement (10 credits)

⊗ LGEO2280	Séminaire de cartographie et de télédétection	Eric Lambin	30h	3 Credits		x	x
⊗ LBIRE2103	General hydrology	Charles Bielders, Marnik Vanclooster (compensates Charles Bielders), Marnik Vanclooster (coord.)	30h +22.5h	5 Credits	1q	x	x
⊗ LBIR1305	Introduction to systems analysis	Philippe Baret (coord.), Emmanuel Hanert	10h+20h	3 Credits	1q	x	x
⊗ LBIRE2101	Statistical analysis of spatial and temporal data	Patrick Bogaert	22.5h +15h	3 Credits	2q	x	x

⊗ Cours au choix complémentaires pour la finalité didactique (10 credits)

○ Un cours parmi (5 credits)

⊗ LMAT2330	Seminar on the teaching of mathematics	Christiane Hauchart, Enrico Vitale	0h+45h	5 Credits		x	x
⊗ LPHY2330	Séminaire de didactique de la physique	Jim Plumet	0h+30h	5 Credits		x	x
⊗ LBIO2330	Séminaire de didactique de la biologie	Myriam De Kesel	0h+30h	5 Credits		x	x
⊗ LCHM2330	Séminaire de didactique de la chimie	Agnès Gnagnarella, Bernard Tinant	0h+30h	5 Credits		x	x

○ 5 crédits à choisir parmi l'ensemble des cours au choix ou les cours ci-dessous

⊗ LAGRE2221	Learning and teaching with new technologies	Marcel Lebrun	15h+15h	2 Credits		x	x
⊗ LAGRE2310	Micro-teaching exercises	Pascalia Papadimitriou, Dominique Vandercamme	15h	2 Credits		x	x

List of focuses

- > [Research focus](#) [en-prog-2013-geog2m-lgeog200a]
 > [Teaching focus](#) [en-prog-2013-geog2m-lgeog200d]

RESEARCH FOCUS [30.0]

- Mandatory
 Courses not taught during 2013-2014
 Periodic courses taught during 2013-2014
- Optional
 Periodic courses not taught during 2013-2014
 Two years course

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

Year

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o Module de géographie humaine (8 credits)

<input type="radio"/> LGEO2220	History of geography	Eric Lambin	22.5h	3 Credits			x
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o 5 crédits à choisir parmi (5 credits)

<input checked="" type="radio"/> LGEO2230	Géographie médicale et de la santé	Sophie Vanwambeke	30h+30h	5 Credits			x
<input checked="" type="radio"/> LBIR1343	Environmental Economics	Frédéric Gaspart	37.5h +7.5h	3 Credits	2q		x
<input checked="" type="radio"/> LBIR1305	Introduction to systems analysis	Philippe Baret (coord.), Emmanuel Hanert	10h+20h	2 Credits	1q		x

o Module de géographie physique (5 credits)

<input type="radio"/> LGEO2250	Mesures de terrain en géographie	Kristof Van Oost, Bas van Wesemael (coord.)	30h+30h	5 Credits			x
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o Module travaux d'intégration (14 credits)

<input type="radio"/> LGEO2160	Integrated exercise in geography I	Bas van Wesemael	15h+15h	3 Credits	1q		x
<input type="radio"/> LGEO2260	Integrated exercise in geography II	Isabelle Thomas	15h+15h	3 Credits			x
<input type="radio"/> LGEO2170	Field Excursion	Eric Lambin	60h+30h	4 Credits		<input type="circle"/>	x x
<input type="radio"/> LGEO2270	Terrain II en géographie	Sophie Vanwambeke	60h+30h	4 Credits		<input type="plus"/>	x x

o Un des deux cours suivants : (3 credits)

<input checked="" type="radio"/> LBIRA2109A	Agrarian systems and farm : partim	Mohamed Walid Ben Youssef Sadok, Pierre Bertin	22.5h +7.5h	3 Credits	1q		x
<input checked="" type="radio"/> LGEO2211	Advanced statistical methods in geography	Dominique Peeters	30h	3 Credits			x

TEACHING FOCUS [30.0]

● Mandatory

△ Courses not taught during 2013-2014

⊕ Periodic courses taught during 2013-2014

⊗ Optional

⊖ Periodic courses not taught during 2013-2014

‡ Two years course

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

Year

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● LGEO2310	Stages d'enseignement en géographie (en ce compris le séminaire d'intégration des stages)	Marie-Laurence De Keersmaecker, Marie-Alexandre Laurent (compensates Marie-Laurence De Keersmaecker)	15h+40h	7 Credits		x	x
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o Module concevoir, planifier et évaluer des pratiques d'enseignement et d'apprentissage (13 credits)

● LAGRE2220	General didactics and education to interdisciplinarity	Ghislain Carlier, Myriam De Kesel, Jean-Louis Dufays, Anne Ghysselelinckx, Philippe Parmentier, Marc Romainville, Bernadette Wiame	22.5h +15h	3 Credits		x	x
● LGEO2320	Didactique et épistémologie de la géographie	Marie-Laurence De Keersmaecker	60h	6 Credits		x	x

o Didactique et épistémologie d'une autre discipline (en ce compris le stage d'écoute) (4 credits)

un cours au choix parmi les cours suivants

⊗ LMAT2320A	Didactique et épistémologie de la mathématique (en ce compris le stage d'écoute)	Christiane Hauchart	37.5h +10h	4 Credits		x	x
⊗ LPHY2320A	Didactique et épistémologie de la physique (en ce compris le stage d'écoute)	Jim Plumet	37.5h +10h	4 Credits		x	x
⊗ LSNAT2320A	Didactique et épistémologie des sciences naturelles (mineure) en ce compris le stage d'observation	Myriam De Kesel, Bernard Tinant	37.5h +10h	4 Credits		x	x

o Module comprendre et analyser l'institution scolaire et son contexte (6 credits)

● LAGRE2120	The school institution and its context	Branka Cattonar, Dominique Grootaers, Christian Lannoye, Caroline Letor	22.5h +25h	4 Credits		x	x
● LAGRE2400	See specifications in french	Anne Ghysselelinckx (coord.)	20h	2 Credits		x	x

o Module animer un groupe et travailler en équipe (4 credits)

● LAGRE2020	To understand the adolescent in school situation, to manage the interpersonal relationship and to animate the class group	Ann d'Alcantara, James Day, Xavier Dejemeppe, Bernard Demuysere, Jean Goossens, Christian Lannoye, Pierre Meurens, Pascale Steyns (coord.), Pascal Vekeman	22.5h +22.5h	4 Credits		x	x
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