

GEOG1BA

2013 - 2014

Bachelor in Geography : General

At Louvain-la-Neuve - 180 credits - 3 years - Day schedule - In frenchDissertation/Graduation Project : **NO** - 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: **geog1ba** - European Qualifications Framework (EQF): 6**Table of contents**

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GEOG1BA - Introduction

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GEOG1BA - Admission

Decree of March 31st 2004 defining higher education and favoring the integration of higher education and university refinancing in the European area)

The admission conditions must be fulfilled at the time of [enrolment at university](#).

[> General Condition](#)

[> Special Conditions](#)

[> Knowledge of the French language exam](#)

General Conditions

Except as otherwise provided by other special legal provisions and with a view to obtaining the academic degree that recognises them, admission to undergraduate courses is granted to students with either:

- A certificate of Further Secondary Education issued from the academic year 1993–1994 by a fully fledged secondary education establishment or a school of Continuing Education in the French Community and approved by the Board created for that purpose, and holders of the same certificate issued from the 1994 calendar year by the education board of the French Community;
- or a certificate of Further Secondary Education issued not later than the end of the school year 1992–1993 accompanied, for admission to degree-length undergraduate studies, by a proficiency diploma giving access to higher education;
- or a diploma issued by a higher education establishment of the French Community recognising an academic degree, or a diploma issued by a university institution or an establishment dispensing full-time higher education under previous legislation;
- or a higher education certificate issued by an improvement courses establishment;
- a pass certificate for one of the [entrance examinations](#) co-ordinated by the higher education establishments or by a French Community education board and whose curricula are approved by the Government after consultation, according to the sector, with the Interuniversity Council of the French Community (Conseil interuniversitaire de la Communauté française – CIUF) or the General Council of the Hautes Ecoles (Conseil général des Hautes Ecoles – CGHE); this certificate gives admission to studies in relevant sectors or fields;
- or a diploma, certificate or secondary school certificate similar to those mentioned above issued by the Flemish Community (this certificate does not give exemption from the [French Language Proficiency](#) exam), by the German-speaking Community or the Royal Military School;
- of a diploma, certificate or secondary school certificate outside Belgium and recognised as equivalent to those mentioned above.

Requests for equivalence must be submitted to the [Service des équivalences](#) of the Ministry of Higher Education and Scientific Research of the French Community of Belgium before 15 July 2013.

Notes: the two following certificates are automatically recognised as equivalent to the Certificate of Upper Secondary Education (Certificat d'enseignement secondaire supérieur – CESS): the European baccalaureat issued by the High Council of European Schools; the international baccalaureate issued by the International Baccalaureate Office, Geneva.

However, neither certificate automatically gives exemption from the [French Language Proficiency](#) exam;

- or a proficiency diploma giving access to higher education (diplôme d'aptitude à accéder à l'enseignement supérieur – DAES) conferred by the French Community examination board.

Exam of knowledge of the French language

Anyone not demonstrating sufficient [French language proficiency](#) will not be admitted to the first-year undergraduate examinations.

Special Conditions

- Admission to **undergraduate studies in engineering: civil engineering and architect**

Pass certificate for the [special entrance examination for undergraduate studies in engineering: civil engineering and architect](#).

Admission to these studies is always subject to passing the special entrance examination. The contents of the programme and the form of the examination may be obtained from the Secretariat of this faculty.

- Admission to **undergraduate studies in veterinary medicine**

[Admission to undergraduate studies in veterinary medicine is governed by the Decree of 16 June 2006 regulating the number of students in certain higher education undergraduate courses \(non-residents\)](#).

- Admission to **undergraduate studies in physiotherapy and rehabilitation**

[Admission to undergraduate studies in physiotherapy and rehabilitation is governed by the Decree of 16 June 2006 regulating the number of students in certain higher education undergraduate courses \(non-residents\)](#).

- Admission to **undergraduate studies in psychology and education: speech and language therapy**

[Admission to undergraduate studies in psychology and education: speech and language therapy is governed by the Decree of 16 June 2006 regulating the number of students in certain higher education undergraduate courses \(non-residents\)](#).

- Admission to **undergraduate studies in medicine and dental science**

Admission to undergraduate studies in medicine and dental science is governed by the Decree of 16 June 2006 regulating the number of students in certain higher education undergraduate courses (non-residents).

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

GEOG1BA - Information

Learning outcomes

The organisation of the space in which we live is the result of man's action on his natural environment. It is the fruit of a multitude of decisions, taken in the far or recent past, which have moulded our environment by adapting it to our needs, for better and for worse. These decisions have stimulated development just as they have created disequilibriums : inceasingly productive world-wide agriculture, exchanges on every level and improvement in general well-being, but also pollution, deforestation, the green-house effect and over-population. Geography is the study of the mechanisms which have led to such phenomena, so that they be better understood and controlled.

The objective of this programme is to provide initiation into the three fundamental aspects of geography : to observe and describe the environment, for example thanks to the bases in computerised geographical data and sophisticated satellite earth observation techniques to understand and explain the processes observed, for example by constructing models which will enable the simulation thereof to intervene in the management of resources through territory reorganisation. The student will develop knowledge and skills within the domain of geography and in particular in the study of the interactions between human activities, geographical space and the natural environment. These studies are approached as much from the point of view of human geography as of that of physical geography, in a significant effort to integrate these two perspectives. The programme likewise aims at the mastering of the geographical techniques essential for the study of these problems.

Teaching method

En première année :

- Des séances sont organisées autour des questions de méthode de travail comme la manière d'aborder les différentes matières et la gestion du temps.
- Les monitorats permettent aux étudiants qui le souhaitent de faire le point sur les matières vues aux cours : les enseignants de chaque discipline répondent aux questions et réexpliquent les notions moins bien comprises.
- Des interrogations obligatoires intervenant dans la note finale de chaque matière sont organisées un mois après le début des cours au premier quadrimestre.

Pour les trois années :

- Les séances d'exercices et de laboratoire sont organisées en petits groupes et sont encadrés par des assistants. Certains travaux pratiques font l'objet de contrôles de connaissances en début de séance et de rapports à remettre en fin de séance.
- Des séjours sur le terrain et un projet permettent à l'étudiant de se confronter à des problèmes concrets et de s'exercer à y apporter des solutions.
- Des travaux personnels et/ou de groupe sont prévus pour certaines activités.
- Des sites internet sont associés à la plupart des cours : des informations utiles y sont déposées.

Evaluation

Différentes modalités sont mises en oeuvre pour l'évaluation des connaissances et des compétences acquises au cours de la formation; elles sont adaptées aux types de prestations : évaluation continue notamment pour les exercices pratiques, évaluation des travaux personnels et de groupe, évaluation globale (écrite et/ou orale) durant les sessions d'examens.

Mobility and/or Internationalisation outlook

Sauf cas exceptionnels, la mobilité internationale n'est recommandée que dans le cadre des programmes de master.

Possible trainings at the end of the programme

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GEOG1BA - 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

Président du jury de 1ère année : **André Lejeune**

Secrétaire du jury de 1ère année : **à désigner**

Président des jurys de 2ème et de 3ème année : **Marie-Laurence De Keersmaecker**

Secrétaire des jurys de 2ème et de 3ème année : **Sophie Vanwambeke**

Usefull Contacts

GEOG1BA - Detailed programme

Programme structure

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Programme by subject

Year

1	2	3
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o Majeure (150 credits)

o Mathématiques générales (20 credits)

o LMAT1111F	General Mathematics	Pedro Dos Santos Santana Forte Vaz, Emmanuel Hanert, Augusto Ponce	45h +37.5h	7 Credits	1q	x		
o LMAT1111G	General Mathematics	Marino Gran, Jean Van Schaftingen	30h +22.5h	4 Credits	2q	x		
o LMAT1275	Statistics in the natural sciences	Anouar El Ghouch	30h+30h	5 Credits	1q		x	
o LBIR1204	Informatique et mathématiques appliquées	Patrick Bogaert, Emmanuel Hanert (coord.), Marnik Vanclooster	22.5h +22.5h	4 Credits	2q		x	

o Physique (20 credits)

o LPHY1113D	Physique générale 1 (1er quadrimestre)	Eric Deleersnijder, Thierry Fichet	30h +41.5h	6 Credits	1q	x		
o LPHY1113E	Physique générale 1 (2e quadrimestre)	Thierry Fichet, Jim Plumet	45h +33.5h	6 Credits	2q	x		
o LBIR1210A	Physique générale (II)	Bruno Bertrand, Fabio Maltoni	60h+45h	8 Credits	2q		x	

o Biologie (11 credits)

o LBIO1111A	Cell biology and introduction to prokaryotes, protists and fungi	André Lejeune	37.5h +18h	5 Credits	1q	x		
o LBIO1111D	B) Plant biology; C) Animal biology	André Lejeune, Jean-François Rees	52.5h +27h	6 Credits	2q	x		

o Chimie (10 credits)

o LCHM1111	General chemistry 1	Michel Devillers (coord.), Bernard Tinant	60h+60h	10 Credits	1q	x		
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o Sciences de la terre (12 credits)

o LBIR1130	Introduction to Earth sciences	Pierre Delmelle, Philippe Sonnet (coord.)	45h+30h	6 Credits	2q	x		
o LGEO1251	Geology	Philippe Sonnet	30h+60h	6 Credits	2q		x	

o Géographie générale (4 credits)

o LGEO1111	General geography	Marie-Laurence De Keersmaecker, Bas van Wesemael	30h+30h	4 Credits	2q	x		
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o Géographie humaine (13 credits)

o LGEO1221	Elements of human geography	Marie-Laurence De Keersmaecker	30h+42h	5 Credits	1q		x	
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o Cours au choix (8 credits)

L'étudiant choisit 8 crédits parmi les cours suivants

⊗ LGEO1321	Human and Economic geography 1	Sophie Vanwambeke	25h+25h	4 Credits	2q			x
⊗ LGEO1322	Human and economic geography 2	Marie-Laurence De Keersmaecker, Isabelle Thomas	25h+25h	4 Credits	2q			x
⊗ LGEO1323	Human and economic geography (3)	Dominique Peeters	25h+25h	4 Credits	2q			x

o Géographie physique (15 credits)

o LGEO1231	Elements of physical geography	Bas van Wesemael	30h+30h	5 Credits	1q		x	
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o Cours au choix (10 credits)

L'étudiant choisit 10 crédits parmi les cours suivants

⊗ LGEO1331	Geomorphology	Bas van Wesemael, Veerle Vanacker	30h+30h	5 Credits	2q			x
⊗ LGEO1332	Biogeography	Caroline Nieberding, Philippe Vernon (compensates Caroline Nieberding), Renate Wesselingh	45h+24h	5 Credits	2q			x
⊗ LPHY1365	Meteorology	Michel Crucifix, Thierry Fichet, Jean-Pascal van Ypersele de Strihou	37.5h +22.5h	5 Credits	1q			x

o Techniques (20 credits)

o LGEO1241	Cartography	Dominique Peeters (coord.), Isabelle Thomas	30h+30h	5 Credits	2q		x	
o LGEO1341	Statistical modelling in geography	Dominique Peeters, Isabelle Thomas	30h+30h	5 Credits	1q			x
o LGEO1342	Geographical Information Systems (GIS)	Sophie Vanwambeke	30h+30h	5 Credits	1q			x
o LGEO1343	Remote sensing	Eric Lambin	30h+30h	5 Credits	1q			x

o Intégration (4 credits)

o LGEO1381	Belgium geography (field course + project)	Veerle Vanacker	60h+60h	4 Credits	1q			x
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o Anglais (9 credits)

o LANG1861	English: reading and listening comprehension of scientific texts	Ahmed Adriouche, Fanny Desterbecq, Charlotte Peters (coord.), Annick Sonck	10h	3 Credits	2q	x		
o LANG1862	English: reading and listening comprehension of scientific texts	Ahmed Adriouche (coord.), Isabelle Druant, Katherine Opello, Annick Sonck	30h	3 Credits	1q		x	
o LANG1863	English for Political Science (Upper-Intermediate level)	Ahmed Adriouche (coord.), Fanny Desterbecq (coord.), Marielle Henriet (coord.), Susan Jackman, Sabrina Knorr (coord.), Nevin Serbest, Françoise Stas (coord.)	30h	3 Credits				x

o Cours au choix

L'étudiant choisit au moins 3 crédits parmi les cours suivants

⌘ LGEO1181	Project	Bas van Wesemael (coord.)	0h+45h	3 Credits	1+2q	x		
⌘ LCHM1141	Organic chemistry 1	Istvan Marko	30h+30h	5 Credits	2q	x		
⌘ LSC1181	Computer tools and documentation research	Daniel Peeters (coord.), Marie-Anne Van Hove	15h+30h	3 Credits	2q	x		

o Sciences humaine (9 credits)

o LECGE1115	Political Economics	Paul Belleflamme, Pierre Dehez (coord.), Nathalie Gilson, Jean Hindriks	45h+15h	5 Credits	1q		x	
o LSC1120	Philosophy	Bernard Feltz	30h	2 Credits	1q		x	

o Sciences religieuses (2 credits)

L'étudiant choisit 2 crédits parmi les cours suivants

⌘ LTECO2100	Questions of religious sciences: biblical readings	Hans Ausloos	15h	2 Credits	1q			x
⌘ LTECO2200	Questions of religious sciences: reflections about christian faith	Dominique Martens	15h	2 Credits	2q			x
⌘ LTECO2300	Questions of religious sciences: questions about ethics	Philippe Cochinaux	15h	2 Credits	1q			x

o Option (30 credits)

Tout en veillant au nombre de crédits requis, l'étudiant complète sa formation avec une mineure qu'il choisit dans la liste suivante : - Mineure d'approfondissement en sciences géographiques - Mineure en économie (ouverture) - Mineure en physique. L'étudiant peut éventuellement choisir une autre mineure sur base d'un projet qu'il élabore avec le conseiller aux études en géographie.

⌘ Mineure au choix (30 credits)

L'étudiant choisit ses cours en fonction des contraintes liées à la mineure et en concertation avec son conseiller aux études.

o	Cours de 2e année	N.		Credits			x	
o	Cours de 3e année	N.		Credits				x

Programme year by year

GEOG1BA - FIRST YEAR

○ 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...)

○ Majeure

○ Mathématiques générales

○ LMAT1111F	General Mathematics	Pedro Dos Santos Santana Forte Vaz, Emmanuel Hanert, Augusto Ponce	45h +37.5h	7 Credits	1q
○ LMAT1111G	General Mathematics	Marino Gran, Jean Van Schaftingen	30h +22.5h	4 Credits	2q

○ Physique

○ LPHY1113D	Physique générale 1 (1er quadrimestre)	Eric Deleersnijder, Thierry Fichet	30h +41.5h	6 Credits	1q
○ LPHY1113E	Physique générale 1 (2e quadrimestre)	Thierry Fichet, Jim Plumet	45h +33.5h	6 Credits	2q

○ Biologie

○ LBIO1111A	Cell biology and introduction to prokaryotes, protists and fungi	André Lejeune	37.5h +18h	5 Credits	1q
○ LBIO1111D	B) Plant biology; C) Animal biology	André Lejeune, Jean-François Rees	52.5h +27h	6 Credits	2q

○ Chimie

○ LCHM1111	General chemistry 1	Michel Devillers (coord.), Bernard Tinant	60h+60h	10 Credits	1q
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○ Sciences de la terre

○ LBIR1130	Introduction to Earth sciences	Pierre Delmelle, Philippe Sonnet (coord.)	45h+30h	6 Credits	2q
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○ Géographie générale

○ LGEO1111	General geography	Marie-Laurence De Keersmaecker, Bas van Wesemael	30h+30h	4 Credits	2q
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○ Anglais

○ LANG1861	English: reading and listening comprehension of scientific texts	Ahmed Adriouèche, Fanny Desterbecq, Charlotte Peters (coord.), Annick Sonck	10h	3 Credits	2q
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○ Cours au choix

L'étudiant choisit au moins 3 crédits parmi les cours suivants

⊗ LGEO1181	Project	Bas van Wesemael (coord.)	0h+45h	3 Credits	1+2q
⊗ LCHM1141	Organic chemistry 1	Istvan Marko	30h+30h	5 Credits	2q
⊗ LSC1181	Computer tools and documentation research	Daniel Peeters (coord.), Marie-Anne Van Hove	15h+30h	3 Credits	2q

GEOG1BA - SECOND YEAR

○ 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...)

○ Majeure**○ Mathématiques générales**

○ LMAT1275	Statistics in the natural sciences	Anouar El Ghouch	30h+30h	5 Credits	1q
○ LBIR1204	Informatique et mathématiques appliquées	Patrick Bogaert, Emmanuel Hanert (coord.), Marnik Vanclooster	22.5h +22.5h	4 Credits	2q

○ Physique

○ LBIR1210A	Physique générale (II)	Bruno Bertrand, Fabio Maltoni	60h+45h	8 Credits	2q
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○ Sciences de la terre

○ LGEO1251	Geology	Philippe Sonnet	30h+60h	6 Credits	2q
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○ Géographie humaine

○ LGEO1221	Elements of human geography	Marie-Laurence De Keersmaecker	30h+42h	5 Credits	1q
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○ Géographie physique

○ LGEO1231	Elements of physical geography	Bas van Wesemael	30h+30h	5 Credits	1q
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○ Techniques

○ LGEO1241	Cartography	Dominique Peeters (coord.), Isabelle Thomas	30h+30h	5 Credits	2q
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○ Anglais

○ LANG1862	English: reading and listening comprehension of scientific texts	Ahmed Adriouche (coord.), Isabelle Druant, Katherine Opello, Annick Sonck	30h	3 Credits	1q
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○ Sciences humaine

○ LECGE1115	Political Economics	Paul Belleflamme, Pierre Dehez (coord.), Nathalie Gilson, Jean Hindriks	45h+15h	5 Credits	1q
○ LSC1120	Philosophy	Bernard Feltz	30h	2 Credits	1q

○ Option

Tout en veillant au nombre de crédits requis, l'étudiant complète sa formation avec une mineure qu'il choisit dans la liste suivante : - Mineure d'approfondissement en sciences géographiques - Mineure en économie (ouverture) - Mineure en physique. L'étudiant peut éventuellement choisir une autre mineure sur base d'un projet qu'il élabore avec le conseiller aux études en géographie.

⊗ Mineure au choix

L'étudiant choisit ses cours en fonction des contraintes liées à la mineure et en concertation avec son conseiller aux études.

○	Cours de 2e année	N.		Credits	
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GEOG1BA - THIRD YEAR

○ 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...)

o Majeure**o Géographie humaine****o Cours au choix***L'étudiant choisit 8 crédits parmi les cours suivants*

⊗ LGEO1321	Human and Economic geography 1	Sophie Vanwambeke	25h+25h	4 Credits	2q
⊗ LGEO1322	Human and economic geography 2	Marie-Laurence De Keersmaecker, Isabelle Thomas	25h+25h	4 Credits	2q
⊗ LGEO1323	Human and economic geography (3)	Dominique Peeters	25h+25h	4 Credits	2q

o Géographie physique**o Cours au choix***L'étudiant choisit 10 crédits parmi les cours suivants*

⊗ LGEO1331	Geomorphology	Bas van Wesemael, Veerle Vanacker	30h+30h	5 Credits	2q
⊗ LGEO1332	Biogeography	Caroline Nieberding, Philippe Vernon (compensates Caroline Nieberding), Renate Wesselingh	45h+24h	5 Credits	2q
⊗ LPHY1365	Meteorology	Michel Crucifix, Thierry Fichet, Jean-Pascal van Ypersele de Strihou	37.5h +22.5h	5 Credits	1q

o Techniques

○ LGEO1341	Statistical modelling in geography	Dominique Peeters, Isabelle Thomas	30h+30h	5 Credits	1q
○ LGEO1342	Geographical Information Systems (GIS)	Sophie Vanwambeke	30h+30h	5 Credits	1q
○ LGEO1343	Remote sensing	Eric Lambin	30h+30h	5 Credits	1q

o Intégration

○ LGEO1381	Belgium geography (field course + project)	Veerle Vanacker	60h+60h	4 Credits	1q
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o Anglais

○ LANG1863	English for Political Science (Upper-Intermediate level)	Ahmed Adriouèche (coord.), Fanny Desterbecq (coord.), Marielle Henriët (coord.), Susan Jackman, Sabrina Knorr (coord.), Nevin Serbest, Françoise Stas (coord.)	30h	3 Credits	
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o Sciences humaine**o Sciences religieuses***L'étudiant choisit 2 crédits parmi les cours suivants*

⊗ LTECO2100	Questions of religious sciences: biblical readings	Hans Ausloos	15h	2 Credits	1q
⊗ LTECO2200	Questions of religious sciences: reflections about christian faith	Dominique Martens	15h	2 Credits	2q
⊗ LTECO2300	Questions of religious sciences: questions about ethics	Philippe Cochinaux	15h	2 Credits	1q

o Option

Tout en veillant au nombre de crédits requis, l'étudiant complète sa formation avec une mineure qu'il choisit dans la liste suivante : - Mineure d'approfondissement en sciences géographiques - Mineure en économie (ouverture) - Mineure en physique. L'étudiant peut éventuellement choisir une autre mineure sur base d'un projet qu'il élabore avec le conseiller aux études en géographie.

⌘ Mineure au choix

L'étudiant choisit ses cours en fonction des contraintes liées à la mineure et en concertation avec son conseiller aux études.

<input type="radio"/>	Cours de 3e année	N.		Credits	
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List of available minors

Besides the major in Geography, the student has three other possibilities : either to complete his studies in Geography by 30 credits with options. In this case, the course on Mathematical Geography (30-15) (5 credits) and the course on Bioclimatology (15-7.5) (2 credits) will be followed in the 2nd year or to opt for the minor in Economics. Those students who choose the minor in Economics are exempt from the sessions on the Principles of Political Economics (60-30) (8 credits) or to opt for another minor from the University programme, based on a project to be elaborated together with the Study Advisor.

- > [Additional module in Geography](https://www.uclouvain.be/en-prog-2013-app-lgeog100p) [<https://www.uclouvain.be/en-prog-2013-app-lgeog100p>]
- > [Minor in Economics \(open\)](https://www.uclouvain.be/en-prog-2013-min-loeco100i) [<https://www.uclouvain.be/en-prog-2013-min-loeco100i>]
- > [Minor in Physics](https://www.uclouvain.be/en-prog-2013-min-lphys100i) [<https://www.uclouvain.be/en-prog-2013-min-lphys100i>]

