

MATH1BA

2014 - 2015

Bachelor in Mathematics

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**Organized by: **Faculté des sciences (SC)**Programme code: **math1ba** - European Qualifications Framework (EQF): 6**Table of contents**

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MATH1BA - Introduction

Introduction

MATH1BA - Teaching profile

Learning outcomes

The Bachelor programme aims at the acquisition of the basic knowledge and skills within the fundamental disciplines of Mathematics (Algebra, Analysis, Numerical Calculations, Geometry, Probability) in relation with their applications such as Physics, Computing and Statistics. Special attention is given to rigour in reasoning and written and oral expression, as well as to the capacities of abstraction and modelling.

On successful completion of this programme, each student is able to :

de connaître et comprendre un socle fondamental des mathématiques.

- Choisir et utiliser les méthodes et les outils fondamentaux de calcul pour résoudre des problèmes de mathématique.
- Reconnaître les concepts fondamentaux d'importantes théories mathématiques actuelles.
- Etablir les liens principaux entre ces théories, les expliquer et les motiver par des exemples.

de dégager, grâce à l'approche abstraite et expérimentale propre aux sciences exactes, les aspects unificateurs de situations et expériences différentes en mathématique ou dans des domaines proches.

pas d'acquis d'apprentissage détaillés

de faire preuve d'abstraction et d'esprit critique.

- Raisonner dans le cadre de la méthode axiomatique.
- Reconnaître les arguments clef et la structure d'une démonstration.
- Construire et rédiger une démonstration de façon autonome.
- Apprécier la rigueur d'un raisonnement mathématique ou logique et en déceler les failles éventuelles.
- Faire la distinction entre l'intuition de la validité d'un résultat et les différents niveaux de compréhension rigoureuse de ce même résultat.

d'être clair, précis et rigoureux dans les activités de communication.

- Rédiger un texte mathématique selon les conventions de la discipline.
- Structurer un exposé oral, mettre en évidence les éléments clef, distinguer techniques et concepts et adapter l'exposé au niveau d'expertise des interlocuteurs.

d'apprendre de façon autonome

- Rechercher dans la littérature mathématique des sources pertinentes.
- Lire et comprendre un texte mathématique avancé et le situer correctement par rapport aux connaissances acquises.
- Se poser de façon autonome des questions pertinentes et lucides sur un sujet mathématique de base.

Programme structure

Erreur de transformation xhtml vers fo pour 'structure' erreur=org.xml.sax.SAXParseException; lineNumber: 275; columnNumber: 762; Des guillemets ouvrants sont attendus pour l'attribut "{1}" associé à un type d'élément "class".

MATH1BA Detailed programme

Programme by subject

o **Majeure (150 credits)**o **Analyse (43 credits)**

o LMAT1121	Mathematical analysis 1	Augusto Ponce, Jean Van Schaftingen	30h+30h	5 Credits	1q	x		
o LMAT1122	Mathematical analysis 2	Augusto Ponce, Jean Van Schaftingen	30h+30h	5 Credits	2q	x		
o LMAT1221	Mathematical analysis 3	Augusto Ponce, Jean Van Schaftingen	45h+45h	9 Credits	1q		x	
o LMAT1222	Complex analysis	Luc Haine	30h+15h	5 Credits	2q		x	
o LMAT1223	Differential equations	Jean Van Schaftingen	30h+15h	5 Credits	2q		x	
o LMAT1321	Functional analysis and partial differential equations	Michel Willem	45h+45h	7 Credits	1q			x
o LMAT1322	Measure theory	Paolo Roselli	22.5h +15h	3 Credits	1q			x
o LMAT1323	Topology	Yves Félix	22.5h +15h	4 Credits	1q		x	

o **Algèbre et géométrie (36 credits)**

o LMAT1131	Linear Algebra	Enrico Vitale	45h+45h	8 Credits	1q	x		
o LMAT1231	Multilinear algebra and group theory	Marino Gran	30h+30h	6 Credits	2q		x	
o LMAT1331	Commutative algebra	Jean-Pierre Tignol	45h	4 Credits	2q			x
o LMAT1141	Geometry I	Pascal Lambrechts	45h+30h	7 Credits	2q	x		
o LMAT1241	Geometry II	Pierre Bieliavsky	45h+15h	6 Credits	1q		x	
o LMAT2110	Éléments de géométrie différentielle	Luc Haine	30h+30h	5 Credits	1q			x

o **Physique et mécanique (26 credits)**

o LPHY1111	General Physics 1	Jan Govaerts, Vincent Lemaître	45h+45h	8 Credits	1q	x		
o LPHY1112	General Physics 2	Jan Govaerts, Vincent Lemaître	45h+45h	8 Credits	2q	x		
o LMAT1161	Mécanique analytique 1	Christian Hagendorf, Luc Haine	22.5h +30h	5 Credits	2q	x		
o LMAT1261	Mécanique analytique 2	Christian Hagendorf, Luc Haine	22.5h +30h	5 Credits	1q		x	

o **Informatique et analyse numérique (11 crédits)**

o LMAT1151	Numerical analysis : tools and software of calculus	Tom Claeys	30h+45h	6 Credits	2q	x		
o LINMA2171	Numerical Analysis : Approximation, Interpolation, Integration	Pierre-Antoine Absil	30h +22.5h	5 Credits	1q			x

o **Probabilités et statistiques (11 credits)**

o LMAT1271	Calculation of probability and statistical analysis	Catherine Timmermans (compensates Rainer von Sachs), Rainer von Sachs	30h+30h	6 Credits	2q		x	
o LMAT1371	Probability	Jan Johannes, Johan Segers, Johan Segers (compensates Jan Johannes)	30h +22.5h	5 Credits	2q			x

o **Séminaires et travaux de synthèse (7 credits)**

o LMAT1381	Personal project and seminary	Marino Gran, Augusto Ponce	30h	7 Credits	2q			x
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o Anglais (7 credits)

o LANG1861	English: reading and listening comprehension of scientific texts	Ahmed Adriouèche, Catherine Avery (compensates Charlotte Peters), Fanny Desterbecq, Charlotte Peters (coord.), Annick Sonck	10h	3 Credits	2q	x			
o LANG1862	English: reading and listening comprehension of scientific texts	Ahmed Adriouèche (coord.), Isabelle Druant, Sandrine Meirlaen (compensates Isabelle Druant), Annick Sonck, Anne-Julie Toubeau (compensates Isabelle Druant)	30h	2 Credits	1q		x		
o LANG1863	English for Political Science (Upper-Intermediate level)	Ahmed Adriouèche (coord.), Timothy Byrne (compensates Sabrina Knorr), Fanny Desterbecq (coord.), Marielle Henriët (coord.), Susan Jackman, Sabrina Knorr (coord.), Nevin Serbest, Colleen Starrs, Françoise Stas (coord.), Shaïma Wasfy (compensates Sabrina Knorr)	30h	2 Credits					x

o Actualités des mathématiques et de la physique (2 credits)

o LMAFY1181	Actualities in Mathematics and Physics	Pascal Lambrechts, Bernard Piraux	15h	2 Credits	1 + 2q	x			
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o Cours au choix

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

o LBIO1114	Introduction to biology	Patrick Dumont, Caroline Nieberding	30h+7.5h	3 Credits	2q	x			
o LCHM1112	General Chemistry	Yaroslav Filinchuk	22.5h +22.5h	3 Credits	1q	x			
o LBIR1130A	Introductions aux sciences de la terre	Philippe Sonnet	30h	3 Credits	2q	x			
o LCOPS1115	Economic Policy	Tanguy Isaac, Arastou Khatibi	45h+15h	5 Credits	1 ou 2q	x			

o Sciences humaines (4 credits)

o un cours à choisir parmi les deux suivants :

De 2 à 4 credits parmi

o LFILO1250	Logic	Peter Verdée	45h+15h	4 Credits	2q		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

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

Year

1 2 3

o Mineure (30 crédits) (30 credits)

Tout en veillant à atteindre les 60 crédits requis par année, l'étudiant complète sa formation - soit avec la mineure d'approfondissement en sciences mathématiques - soit avec une mineure qu'il choisit dans le programme de l'UCL.

⌘ 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.

<input type="radio"/>	Cours de 2e année	N.		Credits			x
<input type="radio"/>	Cours de 3e année	N.		Credits			x

List of available minors

- > **Additional module in Mathematics** [<https://www.uclouvain.be/en-prog-2014-app-lmath100p>]
- > **Mineure en Antiquité : Égypte, Orient, Grèce, Rome** [<https://www.uclouvain.be/en-prog-2014-min-lanti100i>]
- > **Mineure en droit (accès)** [<https://www.uclouvain.be/en-prog-2014-min-ladrt100i>]
- > **Mineure en droit (ouverture)** [<https://www.uclouvain.be/en-prog-2014-min-lodrt100i>]
- > **Minor in Chinese studies** [<https://www.uclouvain.be/en-prog-2014-min-lchin100i>]
- > **Minor in Computer Sciences** [<https://www.uclouvain.be/en-prog-2014-min-linfo100i>]
- > **Minor in Culture and Creation** [<https://www.uclouvain.be/en-prog-2014-min-lcucr100i>]
- > **Minor in Development and Environment** [<https://www.uclouvain.be/en-prog-2014-min-ldevn100i>]
- > **Minor in Economics** [<https://www.uclouvain.be/en-prog-2014-min-lecon100i>]
- > **Minor in Economics (open)** [<https://www.uclouvain.be/en-prog-2014-min-loeco100i>]
- > **Minor in Education (*)** [<https://www.uclouvain.be/en-prog-2014-min-lfopa100i>]
- > **Minor in Engineering Sciences : biomedical** [<https://www.uclouvain.be/en-prog-2014-min-lgbio100i>]
- > **Minor in Engineering Sciences: Applied Mathematics** [<https://www.uclouvain.be/en-prog-2014-min-lmap100i>]
- > **Minor in Engineering Sciences: Mechanics** [<https://www.uclouvain.be/en-prog-2014-min-lmeca100i>]
- > **Minor in European Studies** [<https://www.uclouvain.be/en-prog-2014-min-leuro100i>]
- > **Minor in French Studies (*)** [<https://www.uclouvain.be/en-prog-2014-min-lfran100i>]
- > **Minor in Gender Studies** [<https://www.uclouvain.be/en-prog-2014-min-lgenr100i>]
- > **Minor in Geography** [<https://www.uclouvain.be/en-prog-2014-min-lgeog100i>]
- > **Minor in History** [<https://www.uclouvain.be/en-prog-2014-min-lhist100i>]
- > **Minor in History of Art and Archeology** [<https://www.uclouvain.be/en-prog-2014-min-larke100i>]
- > **Minor in Human and Social Sciences** [<https://www.uclouvain.be/en-prog-2014-min-lhuso100i>]
- > **Minor in Information and Communication (*)** [<https://www.uclouvain.be/en-prog-2014-min-lcomu100i>]
- > **Minor in Linguistics** [<https://www.uclouvain.be/en-prog-2014-min-lling100i>]
- > **Minor in Literary Studies** [<https://www.uclouvain.be/en-prog-2014-min-llitt100i>]
- > **Minor in Management (basic knowledge)** [<https://www.uclouvain.be/en-prog-2014-min-lgesa100i>]
- > **Minor in Medieval Studies** [<https://www.uclouvain.be/en-prog-2014-min-lmedi100i>]
- > **Minor in Musicology** [<https://www.uclouvain.be/en-prog-2014-min-lmusi100i>]
- > **Minor in Oriental Studies** [<https://www.uclouvain.be/en-prog-2014-min-lori100i>]
- > **Minor in Philosophy** [<https://www.uclouvain.be/en-prog-2014-min-lisp100i>]
- > **Minor in Physics** [<https://www.uclouvain.be/en-prog-2014-min-lphys100i>]
- > **Minor in Political Sciences** [<https://www.uclouvain.be/en-prog-2014-min-lspol100i>]
- > **Minor in Population and Development Studies** [<https://www.uclouvain.be/en-prog-2014-min-lsped100i>]
- > **Minor in Psychology and Education (*)** [<https://www.uclouvain.be/en-prog-2014-min-lpsp100i>]
- > **Minor in Scientific Culture** [<https://www.uclouvain.be/en-prog-2014-min-lcusc100i>]
- > **Minor in Sociology and Anthropology** [<https://www.uclouvain.be/en-prog-2014-min-lsoca100i>]
- > **Minor in Statistics** [<https://www.uclouvain.be/en-prog-2014-min-lstat100i>]
- > **Minor in Theology** [<https://www.uclouvain.be/en-prog-2014-min-ltheo100i>]
- > **Minor in Urban Architecture** [<https://www.uclouvain.be/en-prog-2014-min-larch100i>]

(*) *This program is the subject of access criteria*

Programme type

MATH1BA - 1ST ANNUAL UNIT

○ Mandatory

△ Courses not taught during 2014-2015

⊕ Periodic courses taught during 2014-2015

⊗ Optional

⊖ Periodic courses not taught during 2014-2015

‡ Two years course

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

○ Majeure

○ Analyse

○ LMAT1121	Mathematical analysis 1	Augusto Ponce, Jean Van Schaftingen	30h+30h	5 Credits	1q
○ LMAT1122	Mathematical analysis 2	Augusto Ponce, Jean Van Schaftingen	30h+30h	5 Credits	2q

○ Algèbre et géométrie

○ LMAT1131	Linear Algebra	Enrico Vitale	45h+45h	8 Credits	1q
○ LMAT1141	Geometry I	Pascal Lambrechts	45h+30h	7 Credits	2q

○ Physique et mécanique

○ LPHY1111	General Physics 1	Jan Govaerts, Vincent Lemaitre	45h+45h	8 Credits	1q
○ LPHY1112	General Physics 2	Jan Govaerts, Vincent Lemaitre	45h+45h	8 Credits	2q
○ LMAT1161	Mécanique analytique 1	Christian Hagendorf, Luc Haine	22.5h +30h	5 Credits	2q

○ Informatique et analyse numérique (11 crédits)

○ LMAT1151	Numerical analysis : tools and software of calculus	Tom Claeys	30h+45h	6 Credits	2q
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○ Anglais

○ LANG1861	English: reading and listening comprehension of scientific texts	Ahmed Adriouche, Catherine Avery (compensates Charlotte Peters), Fanny Desterbecq, Charlotte Peters (coord.), Annick Sonck	10h	3 Credits	2q
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○ Actualités des mathématiques et de la physique

○ LMAFY1181	Actualities in Mathematics and Physics	Pascal Lambrechts, Bernard Piraux	15h	2 Credits	1 + 2q
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○ Cours au choix

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

⊗ LBIO1114	Introduction to biology	Patrick Dumont, Caroline Nieberding	30h+7.5h	3 Credits	2q
⊗ LCHM1112	General Chemistry	Yaroslav Filinchuk	22.5h +22.5h	3 Credits	1q
⊗ LBIR1130A	Introductions aux sciences de la terre	Philippe Sonnet	30h	3 Credits	2q
⊗ LCOPS1115	Economic Policy	Tanguy Isaac, Arastou Khatibi	45h+15h	5 Credits	1 ou 2q

MATH1BA - 2ND ANNUAL UNIT

○ Mandatory

△ Courses not taught during 2014-2015

⊕ Periodic courses taught during 2014-2015

⊗ Optional

⊖ Periodic courses not taught during 2014-2015

‡ Two years course

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

○ Majeure**○ Analyse**

○ LMAT1221	Mathematical analysis 3	Augusto Ponce, Jean Van Schaftingen	45h+45h	9 Credits	1q
○ LMAT1222	Complex analysis	Luc Haine	30h+15h	5 Credits	2q
○ LMAT1223	Differential equations	Jean Van Schaftingen	30h+15h	5 Credits	2q
○ LMAT1323	Topology	Yves Félix	22.5h +15h	4 Credits	1q

○ Algèbre et géométrie

○ LMAT1231	Multilinear algebra and group theory	Marino Gran	30h+30h	6 Credits	2q
○ LMAT1241	Geometry II	Pierre Bieliavsky	45h+15h	6 Credits	1q

○ Physique et mécanique

○ LMAT1261	Mécanique analytique 2	Christian Hagendorf, Luc Haine	22.5h +30h	5 Credits	1q
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○ Probabilités et statistiques

○ LMAT1271	Calculation of probability and statistical analysis	Catherine Timmermans (compensates Rainer von Sachs), Rainer von Sachs	30h+30h	6 Credits	2q
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○ Anglais

○ LANG1862	English: reading and listening comprehension of scientific texts	Ahmed Adriouche (coord.), Isabelle Druant, Sandrine Meirlaen (compensates Isabelle Druant), Annick Sonck, Anne-Julie Toubeau (compensates Isabelle Druant)	30h	2 Credits	1q
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○ Sciences humaines**○ un cours à choisir parmi les deux suivants :**

De 2 à 4 credits parmi

⊗ LFILO1250	Logic	Peter Verdée	45h+15h	4 Credits	2q
⊗ LSC1120	Philosophy	Bernard Feltz	30h	2 Credits	1q

○ Mineure (30 crédits)

Tout en veillant à atteindre les 60 crédits requis par année, l'étudiant complète sa formation - soit avec la mineure d'approfondissement en sciences mathématiques - soit avec une mineure qu'il choisit dans le programme de l'UCL.

⊗ 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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MATH1BA - 3RD ANNUAL UNIT

○ Mandatory

△ Courses not taught during 2014-2015

⊕ Periodic courses taught during 2014-2015

⊗ Optional

⊖ Periodic courses not taught during 2014-2015

‡ Two years course

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

o Majeure**o Analyse**

○ LMAT1321	Functional analysis and partial differential equations	Michel Willem	45h+45h	7 Credits	1q
○ LMAT1322	Measure theory	Paolo Roselli	22.5h +15h	3 Credits	1q

o Algèbre et géométrie

○ LMAT1331	Commutative algebra	Jean-Pierre Tignol	45h	4 Credits	2q
○ LMAT2110	Eléments de géométrie différentielle	Luc Haine	30h+30h	5 Credits	1q

o Informatique et analyse numérique (11 crédits)

○ LINMA2171	Numerical Analysis : Approximation, Interpolation, Integration	Pierre-Antoine Absil	30h +22.5h	5 Credits	1q
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o Probabilités et statistiques

○ LMAT1371	Probability	Jan Johannes, Johan Segers, Johan Segers (compensates Jan Johannes)	30h +22.5h	5 Credits	2q
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o Séminaires et travaux de synthèse

○ LMAT1381	Personal project and seminary	Marino Gran, Augusto Ponce	30h	7 Credits	2q
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o Anglais

○ LANG1863	English for Political Science (Upper-Intermediate level)	Ahmed Adriouèche (coord.), Timothy Byrne (compensates Sabrina Knorr), Fanny Desterbecq (coord.), Marielle Henriët (coord.), Susan Jackman , Sabrina Knorr (coord.), Nevin Serbest , Colleen Starrs , Françoise Stas (coord.), Shaïma Wasfy (compensates Sabrina Knorr)	30h	2 Credits	
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o Sciences humaines**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 Mineure (30 crédits)

Tout en veillant à atteindre les 60 crédits requis par année, l'étudiant complète sa formation - soit avec la mineure d'approfondissement en sciences mathématiques - soit avec une mineure qu'il choisit dans le programme de l'UCL.

⌘ 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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MATH1BA - Information

Admission

Decree of 7 November 2013 defining the landscape of higher education and the academic organization of studies.
The admission requirements must be met prior to enrolment in the University.

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

- > [General requirements](#)
- > [Specific requirements](#)
- > [Knowledge of the French language exam](#)
- > [Special requirements](#)

General requirements

Except as otherwise provided by other specific legal provisions, admission to undergraduate courses leading to the award of a Bachelor's degree will be granted to students with one of the following qualifications :

1. A Certificate of Upper Secondary Education issued during or after the 1993-1994 academic year by an establishment offering full-time secondary education or an adult education centre in the French Community of Belgium and, as the case may be, approved if it was issued by an educational institution before 1 January 2008 or affixed with the seal of the French Community if it was issued after this date, or an equivalent certificate awarded by the Examination Board of the French Community during or after 1994;
2. A Certificate of Upper Secondary Education issued no later than the end of the 1992-1993 academic year, along with official documentation attesting to the student's ability to pursue higher education for students applying for a full-length undergraduate degree programme;
3. A diploma awarded by a higher education institution within the French Community that confers an academic degree issued under the above-mentioned Decree, or a diploma awarded by a university or institution dispensing full-time higher education in accordance with earlier legislation;
4. A higher education certificate or diploma awarded by an adult education centre;
5. A pass certificate for one of the [entrance examinations](#) organized by higher education institutions or by an examination board of the French Community; this document gives admission to studies in the sectors, fields or programmes indicated therein;
6. A diploma, certificate of studies or other qualification similar to those mentioned above, issued by the Flemish Community of Belgium (this qualification does not grant exemption from the [French language proficiency examination](#)), the German Community of Belgium or the Royal Military Academy;
7. A diploma, certificate of studies or other qualification obtained abroad and deemed equivalent to the first four mentioned above by virtue of a law, decree, European directive or international convention;

Note:

Requests for equivalence must be submitted no later than 14 July 2014 to the Equivalence department ([Service des équivalences](#)) of the Ministry of Higher Education and Scientific Research of the French Community of Belgium.

The following two qualifications are automatically deemed equivalent to the Certificate of Upper Secondary Education (Certificat d'enseignement secondaire supérieur – CESS):

- European Baccalaureate issued by the Board of Governors of a European School,
- International Baccalaureate issued by the International Baccalaureate Office in Geneva.

These two qualifications do not, however, provide automatic exemption from the [French language proficiency examination](#).

8. Official documentation attesting to a student's ability to pursue higher education (diplôme d'aptitude à accéder à l'enseignement supérieur - DAES), issued by the Examination Board of the French Community.

Specific requirements

Admission to undergraduate studies on the basis of accreditation of knowledge and skills obtained through professional or personal experience (Accreditation of Prior Experience)

Subject to the general requirements laid down by the authorities of the higher education institution, with the aim of admission to the undergraduate programme, the examination boards accredit the knowledge and skills that students have obtained through their professional or personal experience.

This experience must correspond to at least five years of documented activity, with years spent in higher education being partially taken into account: 60 credits are deemed equivalent to one year of experience, with a maximum of two years being counted. At the end of an assessment procedure organized by the authorities of the higher education institution, the Examination Board will decide whether a student has sufficient skills and knowledge to successfully pursue undergraduate studies.

After this assessment, the Examination Board will determine the additional courses and possible exemptions constituting the supplementary requirements for the student's admission.

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 requirements

- 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 courses is always subject to students passing the special entrance examination. Contact the faculty office for the programme content and the examination arrangements.

- 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 \(non-residents\)](#).

Note: students wishing to enrol for a Bachelor's degree in Medicine must first sit an aptitude test.

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 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

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".

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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Contacts

Curriculum Managment

Entite de la structure MATH

Acronyme	MATH
Dénomination	Ecole de mathématique
Adresse	Chemin du Cyclotron, 2 bte L7.01.02 1348 Louvain-la-Neuve Tél 010 47 31 52 - Fax 010 47 25 30
Site web	https://www.uclouvain.be/math
Secteur	Secteur des sciences et technologies (SST)
Faculté	Faculté des sciences (SC)
Commission de programme	Ecole de mathématique (MATH)

Jury

Président du jury de 1ère année : **Pascal Lambrechts**

Secrétaire du jury de 1ère année : **Marino Gran**

Usefull Contacts

