

**At Bruxelles Woluwe - 180 credits - 3 years - Day schedule - In French**

Dissertation/Graduation Project : **NO** - Internship : **YES**

Activities in English: **NO** - Activities in other languages : **NO**

Activities on other sites : **NO**

Main study domain : **Sciences médicales**

Organized by: **Faculty of Medicine and Dentistry (MEDE)**

Programme acronym: **MD1BA**

## MD1BA - Introduction

### Introduction

---



2. Lire, interpréter et résumer un article de recherche biomédicale en anglais
3. Confronter les collections d'informations sur la toile aux ouvrages de référence validés
4. S'obliger à citer ses sources
5. Etre érudit par la curiosité scientifique et l'aptitude à innover.

d'expliquer l'importance de la responsabilité sociétale de l'universitaire et du futur professionnel de la santé.

1. Comprendre les systèmes de santé et leur financement
2. Maîtriser une approche globale de la santé (environnement ; prévention, diagnostic, traitement, etc.).

## Programme structure

Les études de médecine comporteront 3 années de bachelier et 3 années de master, chaque année étant divisée en deux quadrimestres. A l'issue de ces 6 années, le diplômé peut entamer un master complémentaire soit en médecine générale (3 ans) soit dans une des spécialités médicales (de 4 à 7 ans).

### Le premier quadrimestre de la 1re année de bachelier

Ce premier quadrimestre se concentre sur l'enseignement de disciplines scientifiques indispensables à l'étude ultérieure des sciences de la vie : il inclut ainsi un cours de physique, de chimie (chimie générale et organique) et de biologie (biologie générale et embryologie). La formation scientifique du premier quadrimestre est complétée d'un cours de sciences humaines (philosophie).

### Du 2e quadrimestre du 1er bachelier au 1er quadrimestre du 3e bachelier

Ces quatre quadrimestres jettent les bases de la compréhension du corps humain dans sa constitution et son fonctionnement, tant à l'état normal que dans des conditions pathologiques. On y retrouvera dès lors des cours d'histologie, d'anatomie, de physiologie, de biochimie, etc.

La formation inclut également des cours de psychologie, qui préparent le futur médecin à aborder chaque patient dans sa singularité. Enfin, les dimensions sociétales de la santé et de la maladie sont abordées au travers des cours d'épidémiologie et de santé publique.

Dès la 2e année, les étudiants auront l'occasion de se familiariser avec la pratique clinique dans le cadre d'un stage hospitalier.

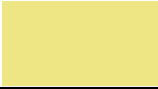
### Le 2e quadrimestre de la 3e année de bachelier

Ce quadrimestre entame l'apprentissage de la formation clinique qui sera poursuivi en master. Cette formation clinique est organisée en secteurs, qui intègrent les différentes spécialités médicales, pour couvrir toutes les interventions dans le soin d'une pathologie, depuis son diagnostic jusqu'au traitement. Figure ainsi au programme de ce 2e quadrimestre de la 3e année l'étude des secteurs cardio-vasculaire et respiratoire.

## MD1BA Programme

## Detailed programme by subject

- 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



WMDS1326

				Year		
				1	2	3
○ WMDS1313	Microbiologie médicale 🇯🇵	Benoît Kabamba-Mukadi Hector Rodriguez-Villalobos (coord.) Alexia Verroken	FR [q1] [45h+10h] [5 Credits] 🌐			X
○ WMDS1326	Histologie des systèmes, partie 2 🇯🇵	Christiani Andrade Amorim Isabelle Leclercq (coord.)	FR [q1] [0h+40h] [2 Credits] 🌐			X
○ WSBIM1334M	general immunology 🇯🇵	Sophie Lucas (coord.)	FR [q1] [35h] [4 Credits] 🌐 > English-friendly			X
○ WMDS1315	Système endocrinien, partie 1 🇯🇵	Isabelle Leclercq Philippe Lysy (coord.)	FR [q1] [30h] [3 Credits] 🌐			X

Year







## Course prerequisites

---

The **table** below lists the activities (course units, or CUs) for which there are one or more prerequisites within the programme, i.e. the programme CU for which the learning outcomes must be certified and the corresponding credits awarded by the jury before registering for that CU.

These activities are also identified **in the detailed programme**: their title is followed by a yellow square.

### Prerequisites and student's annual programme

As the prerequisite is for CU registration purposes only, there are no prerequisites within a programme year. Prerequisites are defined between CUs of different years and therefore influence the order in which the student will be able to register for the programme's CUs.

In addition, when the jury validates a student's individual programme at the beginning of the year, it ensures its coherence, meaning that it may:

- require the student to combine registration in two separate CUs which it considers necessary from a pedagogical point of view.
- transform a prerequisite into a corequisite if the student is in the final year of a degree course.

For more information, please consult the [Academic Regulations and Procedures](#).

### # Prerequisites list

**WFARM1282T** "Microbiologie générale (partim théorie)" has prerequisite(s) WMDS1109

- WMDS1109 - Biologie moléculaire

**WMDS1210** "Physiologie cellulaire" has prerequisite(s) WMDS1110

- WMDS1110 - Physique appliquée à la médecine

**WMDS1214** "Introduction à la pratique médicale" has prerequisite(s) WMDS1115

- WMDS1115 - Introduction à l'approche médicale et à la recherche scientifique

**WMDS1215** "Biochimie métabolique" has prerequisite(s) WMDS1111

- WMDS1111 - Chimie médicale

**WMDS1220** "Anatomie topologique et clinique" has prerequisite(s) WMDS1103

- WMDS1103 - Anatomie générale et fonctionnelle

**WMDS1221** "Système nerveux, partie 1" has prerequisite(s) WMEDE1112

- WMEDE1112 - Biologie et embryologie générale

**WMDS1223** "Système urinaire, partie 1" has prerequisite(s) WMDS1105

- WMDS1105 - Histologie générale

**WMDS1224** "Système respiratoire, partie 1" has prerequisite(s) WMEDE1100

- WMEDE1100 - Physique générale

**WMDS1225** "Système cardiovasculaire, partie 1" has prerequisite(s) WMDS1110

- WMDS1110 - Physique appliquée à la médecine

**WMDS1226** "Histologie des systèmes, partie 1" has prerequisite(s) WMDS1105

- WMDS1105 - Histologie générale

**WMDS1229** "Génétique humaine" has prerequisite(s) WMDS1109

- WMDS1109 - Biologie moléculaire

**WMDS1230**

- WMDS1324** "Système respiratoire, partie 2" has prerequisite(s) WMDS1224
- WMDS1224 - Système respiratoire, partie 1
- WMDS1325** "Système cardiovasculaire, partie 2" has prerequisite(s) WMDS1225
- WMDS1225 - Système cardiovasculaire, partie 1
- WMDS1326** "Histologie des systèmes, partie 2" has prerequisite(s) WMDS1226
- WMDS1226 - Histologie des systèmes, partie 1
- WMDS1329** "Stage d'observation en médecine générale (4 semaines)" has prerequisite(s) WMDS1224 ET WMDS1225
- WMDS1224 - Système respiratoire, partie 1
  - WMDS1225 - Système cardiovasculaire, partie 1
- WMDS1330** "Pathologie générale" has prerequisite(s) WMDS1226
- WMDS1226 - Histologie des systèmes, partie 1
- WMDS1331** "Démarche clinique" has prerequisite(s) WMDS1224 ET WMDS1225
- WMDS1224 - Système respiratoire, partie 1
  - WMDS1225 - Système cardiovasculaire, partie 1
- WSBIM1334M** "Immunologie générale (partim MD)" has prerequisite(s) WMDS1230
- WMDS1230 - Biologie cellulaire médicale et expérimentale

## 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.

## Detailed programme per annual block

### MD1BA - 1ST ANNUAL UNIT

- 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...)

### Content:

#### Des atomes, des molécules et des systèmes qui les régissent

○ WMEDE1100	Physique générale	Pascale Wauters	FR [q1] [40h +25h] [5 Credits] ⊗
○ WMEDE1101	Chimie générale	Mohamed Ayadim Benjamin Elias Jean-François Gohy	FR [q1] [40h +20h] [5 Credits] ⊗
○ WMDS1110			

## ○ De la cellule à l'être humain: approche morphologique et fonctionnelle

○ WMEDE1112	Biologie et embryologie générale	Charles De Smet (coord.)	ES [q1] [45h +15h] [5 Credits] 
○ WMDS1105	Histologie générale	Christophe Pierreux	ES [q1] [20h +60h] [5 Credits] 
○ WMDS1103	Anatomie générale et fonctionnelle	Catherine Behets Wydemans Benoît Lengelé (coord.)	ES [q2] [45h] [5 Credits]

**MD1BA - 2ND ANNUAL UNIT**

- 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...)

**o Content:****o De la cellule à l'être humain: approche morphologique et fonctionnelle**

○ WMDS1237	Pharmacologie générale ■	Laure Elens Vincent Haufroid Emmanuel Hermans (coord.)	FR [q1] [25h] [3 Credits] 🌐
○ WMDS1230	Biologie cellulaire médicale et expérimentale ■	Stefan Constantinescu (coord.) Christophe Pierreux Donatienne Tyteca	FR [q1] [30h +20h] [5 Credits] 🌐
○ WMDS1215	Biochimie métabolique ■	Guido Bommer Jean-François Collet (coord.)	FR [q1] [50h] [6 Credits] 🌐
○ WMDS1231	Biochimie humaine pathologique ■	Guido Bommer Frédéric Lemaigre (coord.)	FR [q2] [30h] [3 Credits] 🌐 > English-friendly
○ WFARM1282T	Microbiologie générale (partim théorie) ■	Thomas Michiels	FR [q1] [20h] [2 Credits] 🌐
○ WMDS1210	Physiologie cellulaire ■	Philippe Gailly	FR [q1] [55h +10h] [6 Credits] 🌐
○ WMDS1220	Anatomie topologique et clinique ■	Benoît Lengelé	FR [q1+q2] [70h +40h] [9 Credits] 🌐
○ WMDS1226	Histologie des systèmes, partie 1 ■	Isabelle Leclercq (coord.) Christophe Pierreux	FR [q2] [19h +40h] [3 Credits] 🌐
○ WMDS1221	Système nerveux, partie 1 ■	Benoît Lengelé Marcus Missal André Mouraux (coord.) Sylvie Nozaradan	FR [q1+q2] [65h +10h] [7 Credits] 🌐
○ WMDS1223	Système urinaire, partie 1 ■	Olivier Devuyst (coord.) Isabelle Leclercq	FR [q2] [16h +10h] [3 Credits] 🌐
○ WMDS1224	Système respiratoire, partie 1 ■	Dominique Vanpee Franck Verschuren (coord.)	FR [q2] [22h +10h] [3 Credits] 🌐
○ WMDS1225	Système cardiovasculaire, partie 1 ■	Christophe Beauloye (coord.) Philippe Gailly	FR [q2] [28h +10h] [3 Credits] 🌐
○ WMDS1229	Génétique humaine ■	Miikka Vikkula	FR [q2] [20h] [2 Credits] 🌐 > English-friendly

o Approche intégrée de la santé et de la maladie

o WMDS1214





### o Approche contextuelle de la santé et de la maladie

WMDS1314	Séminaires de sciences humaines	Philippe de Timary Gérald Deschietere (coord.) Peter Verdée	FB [q1] [0h] +40h] [2 Credits]
----------	---------------------------------	---	---

### o Approche intégrée de la santé et de la maladie

WMDS1332	Préparation au stage	Bruno Verstraete (coord.)	FB [q2] [12h] [2 Credits]
WMDS1329	Stage d'observation en médecine générale (4 semaines)	Bruno Verstraete (coord.)	FB [q2] [] [4 Credits]

### o Cours au choix

Outre l'enseignement obligatoire, l'étudiant doit, au cours du 1er cycle, valider 4 crédits d'activités au choix (à raison de 2 cours valant chacun 2 crédits à répartir sur 2 ans). Ces activités consistent en cours au choix ou/et en monitorat. Outre l'enseignement obligatoire, l'étudiant doit, au cours du 1er cycle, valider 4 crédits d'activités au choix. Ces activités consistent en cours au choix ou/et en monitorat. Toutes les informations concernant l'activité étudiant chercheur peuvent être trouvées en suivant le lien: <https://intranet.uclouvain.be/fr/myucl/facultes/mede/med/etudiant-chercheur.html>.

#### o Liste des cours au choix

L'étudiant peut, s'il le désire, suivre un cours autre que ceux indiqués ci-dessous (cours des programmes de sciences biomédicales, pharmaceutiques ou de la santé publique, etc) moyennant l'accord préalable du président de son comité d'année.

WANES2111	Formation à la réanimation cardio-pulmonaire	Anda Loana Cismas Thierry Detaille Audrey Dieu Cornelia Genbrugge Laurent Houtekie David Kahn (coord.) Nassim Touil	FB [q1] [15h] [2 Credits]
WINTR2292	Pulmonary function testing	Giuseppe Liistro (coord.) Eric Marchand	FB [q2] [15h] [2 Credits]
WPEDI2140	Cardiologie pédiatrique	Catherine Barréa Karlien Carbonez Stéphane Moniotte Mieke Roggen (coord.)	FB [q1] [15h] [2 Credits]
WPNEU2110	Supplements of pneumology	Antoine Froidure Sophie Gohy Sebahat Ocaak Charles Pilette (coord.)	FB [q2] [15h] [2 Credits]
WGEMO2110	Génétique moléculaire médicale	Anne De Leener Raphaël Helaers Nicole Revencu Miiikka Vikkula (coord.)	FB [q1] [15h] [2 Credits] > English- friendly
WMED2130	Développement durable et transition dans le domaine des soins de santé	Anne Berquin (coord.) Ségolène de Rouffignac Nathalie Delzenne Gérald Deschietere Alain Loute	FB [q1+q2] [15h] [2 Credits]

#### o Filière recherche

WMED1260	Bases de l'informatique dans le secteur de la santé	François Roucoux	FB [q1] [15h] [2 Credits]
----------	---	------------------	---------------------------------

#### o Filière sciences humaines

WPSYC2190	Psychiatrie de l'adolescent et du jeune adulte	Nicolas Zdanowicz	FB [q2] [15h] [2 Credits]
WMED1390	Culture(s), création et pratiques médicales (2e partie)	Pascale Champagne Cassian Minguet (coord.)	FB [q1] [15h] +0h] [2 Credits]
WPSYC2143	Introduction à la psychosomatique - psychanalyse	Nicolas Zdanowicz	FB [q2] [15h] [2 Credits]





## MD1BA - Information

### Access Requirements

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.**

#### SUMMARY

- [General access requirements](#)
- [Specific access requirements](#)
- [Access based on validation of professional experience](#)
- [Special requirements to access some programmes](#)

### General access 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, 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 to the Equivalence department ([Service des équivalences](#)) of the Ministry of Higher Education and Scientific Research of the French Community of Belgium in compliance with the official deadline.

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.

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 access requirements

- Access to bachelor programmes for candidates of nationality outside the European Union who are not assimilated to Belgian nationals is subject to the following criteria:
  - not have obtained a secondary education diploma for more than 3 years maximum. Example: for an admission application for the academic year 2024-2025, you must have obtained your diploma during the academic years 2021-2022, 2022-2023 ou 2023-2024. In the French Community of Belgium, the academic year runs from September 14 to September 13
  - not already hold an undergraduate degree
- Candidates, whatever their nationality, with a secondary school diploma **from a country outside the European Union**, must have obtained an average of 13/20 minimum or, failing that, have obtained this average, have passed one year of study in Belgium (for example special Maths / sciences). A non-successful year will not be taken into consideration.

- For any secondary school diploma **from a European Union country**, the admission request must contain the equivalence of your diploma or, at the very least, proof of the filing of the equivalence request with the Wallonia-Brussels Federation (French Community of Belgium). For any information relating to obtaining an equivalence, please refer to [the following site](#).
- For any secondary school diploma **from a country outside the European Union**, the admission application must contain the [equivalence of your diploma](#) issued by the Wallonia-Brussels Federation (French Community of Belgium). If you have a restrictive equivalence for the programme of your choice, in addition of it, you **must** have either the [DAES](#) or a certificate of successful completion of the [examination giving access to 1<sup>st</sup> cycle studies](#) when you submit your application

## Access based on validation of professional experience

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.

## Special requirements to access some programmes

- 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**

## Specific professional rules

---

These studies lead to a professional title subject to specific rules or restrictions on professional accreditation or establishment.

You will find the necessary legal information by [clicking here](#).

## Teaching method

---

Le programme de bachelier en médecine vise au développement, chez l'étudiant, des compétences qui lui permettront d'aborder le master en médecine. Ce programme est régulièrement actualisé de manière à faire face aux avancées de la science et aux demandes de la société. Tout-au-long de son parcours, l'étudiant a ainsi l'occasion d'acquérir des savoirs ou connaissances, des savoir-faire et des attitudes qu'il aura à mettre en application dans des situations-problèmes plus ou moins complexes en fonction du moment de formation.

Les compétences à acquérir s'inscrivent à la fois dans le domaine des sciences fondamentales, des sciences du vivant (physiologie, biochimie, anatomie,...) et des sciences humaines (philosophie, psychologie).

Cet apprentissage est rendu possible par une diversité de méthodes pédagogiques : cours en auditoires, travaux pratiques en laboratoire, stages, séminaires en petits groupes et travaux personnels permettant l'intégration des acquis.

## Evaluation

---

*Programmes de masters accessibles avec prérequis* : master en sciences pharmaceutiques, master en sciences biomédicales.

*Autres* : programme de master accessible moyennant programme adapté : master en sciences biologiques.

## Contacts

---

### Curriculum Management

#### Entity

Structure entity	SSS/MEDE/MED
Denomination	(MED)
Faculty	Faculty of Medicine and Dentistry (MEDE)
Sector	Health Sciences (SSS)
Acronym	MED
Postal address	Avenue Mounier 50 - bte B1.50.06 1200 Woluwe-Saint-Lambert Tel: +32 (0)2 764 50 20

Academic supervisor: [Christophe Beauloye](#)

#### Jury

- President of the jury: [president-bac-med@uclouvain.be](mailto:president-bac-med@uclouvain.be)
- Secretary of the jury: [president-bac-med@uclouvain.be](mailto:president-bac-med@uclouvain.be)

#### Useful Contact(s)

- Personne de contact de la 1re année de bachelier: [secretariat-bac1-mede@uclouvain.be](mailto:secretariat-bac1-mede@uclouvain.be)
- Personne de contact de la 2e année de bachelier: [secretariat-med@uclouvain.be](mailto:secretariat-med@uclouvain.be)
- Administrative Director of the Faculty of Medicine and Dentistry: [Gaelle Fransman](#)
- Studies Advisor: [Sandrine Ntamashimikiro](#)

