



MD1BA

2024 - 2025

MD1BA - Introduction

Introduction

MD1BA - Teaching profile

Learning outcomes

La médecine se situe au confluent des sciences exactes et des sciences humaines.

Le médecin est un scientifique qui s'intéresse à l'homme corps, esprit et sentiment. Les enseignements du programme de bachelier en médecine s'organisent dès lors autour de 2 grands axes : un axe " sciences de base et de la vie " et un axe " sciences humaines ". La formation en " sciences de base et de la vie " permet d'acquérir les connaissances et les aptitudes scientifiques fondamentales, indispensables à l'exercice d'une profession où la rigueur intellectuelle est de mise : sens de l'observation, capacité de lire et d'interpréter les résultats, regard critique face aux données recueillies, autant de compétences qui seront acquises grâce aux cours magistraux et aux travaux pratiques.

La formation en sciences humaines invite à réfléchir aux différentes questions que soulèvent les développements récents des sciences biomédicales : science et société, respect de la nature, neurosciences et nature humaine, autant de thèmes qui seront abordés lors de séminaires. Les enseignements de psychologie préparent à aborder le patient dans sa singularité.

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

de démontrer la maîtrise de l'ensemble de connaissances de sciences fondamentales et biomédicales lui permettant de résoudre des problématiques en lien avec les disciplines impliquées dans la médecine.

Pas d'information particulière à ce sujet.

d'expliquer les causes et les manifestations des maladies en intégrant les approches moléculaires, morphologiques et fonctionnelles.

1. Observations acoustiques : bruits du cœur, echo-Doppler, percussion, etc.
2. Observations électriques : ECG, vitesse de conduction nerveuse, etc.
3. Observations tissulaires : coupes histologiques, colorations simples, immunomarquage, etc.
4. Observations cellulaires et moléculaires : marqueurs de prolifération, cytométrie de flux, etc.
5. Interprétation de résultats d'analyses chimiques ou biologiques.

d'utiliser les nombres, la représentation dans l'espace et les principes de logique pour décrire, quantifier et hiérarchiser les phénomènes observés.

1. Appliquer les principes de base du raisonnement (analyse, synthèse, comparaisons, analogie, etc).
2. Appliquer la règle de trois.
3. Maîtriser les valeurs absolues, les ordres de grandeurs et les proportions.
4. Comprendre et utiliser les échelles de temps et leurs représentations.
5. Comprendre et appliquer la traduction mathématique des grandes lois physiques, chimiques et biologiques (vitesse, flux, interactions, etc)
6. Exprimer les valeurs numériques et leurs relations sous forme graphique.
7. Comprendre la signification du raisonnement statistique (hypothèses et intervalle de confiance, courbes de survie, risque relatif, et des tests de base.
8. Maîtriser les représentations dans l'espace bi/tri- dimensionnel.

d'appliquer les modes de raisonnement propres à la démarche clinique et/ou à la recherche.

34tmarromprend/c1 0f7auxuv8t51nomènes

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.).

				Year		
				1	2	3
○ WMEDE1101	Chimie générale	Mohamed Ayadim Benjamin Elias Jean-François Gohy	PS [q1] [40h+20h] [5 Credits]	X		
○ WMDS1110	Physique appliquée à la médecine	Vincent Lemaitre Pascale Wauters	PS [q2] [25h+15h] [3 Credits]	X		
○ WMDS1111	Chimie médicale	Mohamed Ayadim Benjamin Elias Jean-François Gohy	PS [q2] [25h+15h] [3 Credits]	X		

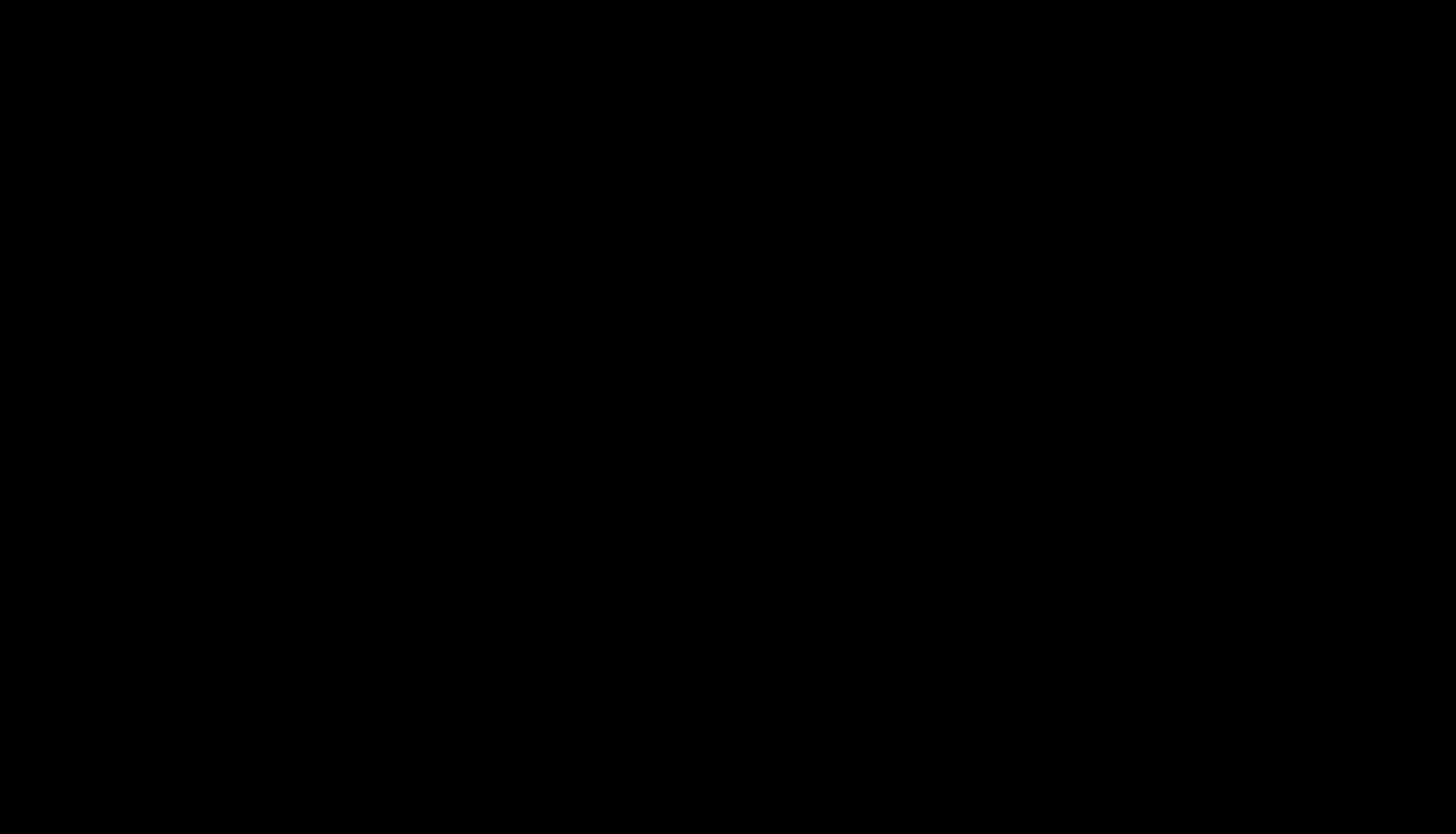
○ De la cellule à l'être humain: approche morphologique et fonctionnelle (127 credits)

○ WMEDE1112	Biologie et embryologie générale	Charles De Smet (coord.)	PS [q1] [45h+15h] [5 Credits]	X		
○ WMDS1105	Histologie générale	Christophe Pierreux	PS [q1] [20h+60h] [5 Credits]	X		
○ WMDS1103	Anatomie générale et fonctionnelle	Catherine Behets Wydema0.77400017 Tm [(Catherine Behets)] TJ 1 0 0 -1 21.3239994 19.10600				

				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

Year





[REDACTED]



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	"Biologie cellulaire médicale et expérimentale" has prerequisite(s) WMEDE1112
	• WMEDE1112 - Biologie et embryologie générale
WMDS1231	"Biochimie humaine pathologique" has prerequisite(s) WMDS1111
	• WMDS1111 - Chimie médicale
WMDS1237	"Pharmacologie générale" has prerequisite(s) WMDS1114
	• WMDS1114 - Eléments de statistiques médicales
WMDS1311	"Anatomie radiologique et imagerie médicale" has prerequisite(s) WMDS1220
	• WMDS1220 - Anatomie topologique et clinique
WMDS1313	"Microbiologie médicale" has prerequisite(s) WFARM1282T
	• WFARM1282T - Microbiologie générale (partim théorie)
WMDS1314	"Séminaires de sciences humaines" has prerequisite(s) WMDS1214
	• WMDS1214 - Introduction à la pratique médicale
WMDS1315	"Système endocrinien, partie 1" has prerequisite(s) WMDS1215
	• WMDS1215 - Biochimie métabolique
WMDS1321	"Système digestif, partie 1" has prerequisite(s) WMDS1210
	• WMDS1210 - Physiologie cellulaire
WMDS1322	"Système reproducteur, partie 1" has prerequisite(s) WMDS1231
	• WMDS1231 - Biochimie humaine pathologique

- 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
 - △ ⊕
-

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

o WMEDE1112

Biologie et embryologie générale

Charles De

MD1BA - 2ND ANNUAL UNIT

o Approche intégrée de la santé et de la maladie

o WMDS1214



MD1BA - Information

Access Requirements

- 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 1st 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**

[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** or a **Bachelor's degree in dental science** must first sit an [aptitude test \(fr\)](#).

- Access to **Bachelor of Science in Business Engineering**

The Bachelor of Science in Business Engineering is a joint program organised by KU Leuven and UCLouvain Saint-Louis Bruxelles. In order to register, all candidate must first submit an application via the [KU Leuven admission platform](#). The [conditions of access](#) to this programme are specific.

