

## Faculty of Medicine



### MED 1BA Baccalauréat en médecine (Bachelor of Medicine)



#### Study objectives

Medicine is situated at the confluence of the Exact Sciences and Human Sciences.

A Doctor in medicine is a scientist who is interested in man's body and "soul". The bachelor's of Medicine thus revolves around two main axes : the "Basic and Life Sciences" axis and the "Human Sciences" axis. The training in "Basic and Life Sciences" aims at the acquisition of knowledge and the fundamental scientific capacities indispensable for the practice of a profession where intellectual rigour is the order of the day. This necessitates : a keen sense of observation, the capacity for understanding and processing data and a critical approach to the data collected, all of which skills will be acquired thanks to the practical part of the course-work.

The Studies in Human Sciences nourish reflection on the different questions underlined by the recent developments in Biomedical Sciences : science and society, respect of nature, neurosciences and human nature, all of which themes will be tackled during the course seminars and lectures. The Psychology course will help the student to approach the patient from the perspective of his being a unique, individual person.

**Please note :** Access to the medical profession is limited by federal legislation and the selection of students is determined by French-speaking community law.

#### General presentation of the programme

The bachelor's programme of Medicine totals 180 credits (*a credit refers to " the volume of work that the student needs to produce in order to attain his study objectives"*) : a basic course of 60 credits (the 1st year) and a specific course (in the 2nd and 3rd year) corresponding to at least 120 credits.

The first year of the bachelor's provides a solid grounding in the scientific disciplines indispensable for later studies in Life Sciences. It is, for the most part, common to the other courses in Health Science. The scientific studies in the second and third years of the bachelor's revolve around the human body in its normal state, and then in pathological conditions. As for the sessions in Human Sciences, these are spread over the three years of the bachelor's programme. Note that there is also an English course designed to familiarise the student with scientific texts.

The second year includes includes work experience in a hospital environment as well as in social medicine.

#### Special programme organisation

The 1st year study cycle in Medicine and in Dental Sciences is structured in two parts : the first part is the so-called "orientation," selection year, comprising 60 credits ; the second part comprises 120 credits.

#### Principal Subjects

*The number of credits corresponding to these subjects is indicated in brackets.*

The bachelor's programme is designed to educate the student about the world of the living, from a single atom to the whole of society.

#### Atoms, molecules and the systems which govern them

General and Organic Chemistry - Biochemistry - Experimental Physics and Biophysics - Genetics - Pharmacology.

#### From a single cell to a human being

Morphological and functional approach : General, Cellular and Molecular Biology, - Cytology and Histology- Anatomy - Physiology - Embryology - Immunology - Microbiology - Medical Virology - Radiological Anatomy and Normal Imagery - General Pathological Anatomy - General Pathology - Medical Semiology and Physiopathological Integration.

#### Contextual approach to health and illness

Philosophy- Psychology- Epidemiology - Biological Anthropology - Interdisciplinary seminar on Human Sciences - practical work experience.

#### Other course subjects

English

#### Options

#### Evaluation

##### Special procedures for the first year of studies - selection year.

During the course of the first study year, the course activities are evaluated in accordance with the reglementation of the decree

relating to the studies in Medecine and Dentistry.

### **Principles, particularly relating to the selected classification of students :**

- The 1st year study cycle in Medecine and in Dental Sciences is structured in two parts : the first part is the so-called "orientation," selection part, comprising 60 credits ; the second part comprises 120 credits.
- Access to the second part is subject to passing the orientation or selection tests.
- The selection classifications carried out at the end of these tests include 80% (55 credits) of academic tests and 20% (5 credits) of specific "transversal" tests aimed at evaluating the student's capacities to practise the profession of doctor or dentist (capacities to understand, summarise and communicate information, successfully apply his knowledge to solve situations necessitating transdisciplinary knowledge and know-how).
- During the course of the first study year, the results obtained during the various oral exercises organised during the year as well as the January exam session, will only serve as an indication and will not give rise to any results valid for the ensuing sessions of the study year.
- An initial selection classification list will be established at the end of the June session and, in the case of further places available, a second classification list will be established at the end of the September session.
- Successfully classified candidates will receive a special attestation entitling them access to the 2nd part of the 1st cycle.
- Students who obtain the 60 credits during the course of the first year but who do not obtain the attestation may be admitted to the second year of studies of a cycle which is not structured in two parts (Biomedical Sciences, Pharmacy, Biology, etc.). They may likewise recommence their study year once without being able to benefit from any marks already obtained.
- Students who have not managed to attain the 60 credits, may recommence their year once without being able to benefit from any marks already obtained ; they may also reorient their studies, thus benefitting from any marks (even credits) already obtained, towards another cursus whose 1st cycle is not structured in two parts (Biomedical Sciences, Pharmacy, Biology, etc.).

### **Evaluation procedures as from the second year of studies**

The course subjects and activities are evaluated in accordance with the prevailing University rules and regulations (c.f exam reglementation). Exams are organised at the end of the course session periods (January, June) as well as in September. The practical and work experience training is likewise evaluated in the form of ongoing evaluation.

### **Admission to the programme**

#### **Warning**

Access to the studies in Medecine or Dental Sciences is open to holders of a certificate in secondary education.

The Federal State has introduced a limit to the possible number of new doctors or dentists able to practise in the context of the AMI (sickness and invalidity insurance). This limitation has been effective since September 2004 for Medecine and since 2002 for Dental Sciences. In order to respond to these quotas, the Faculties of Medecine are duly obliged to establish a selection procedure for their students.

A decree formalising the selection of students, in each university, as from the 1st year of the first study cycle in Medecine and in Dental Sciences was approved by the Parliament of the French-speaking Community of Belgium on 21st June, 2005 and appeared in the "moniteur belge" (Belgian Monitor) on 30th August, 2005.

Only those students selected will receive an attestation allowing them to pass from the 1st to the 2nd cycle of studies in Medecine or in Dental Sciences.

*c.f. point on "Evaluation", below*

### **Positioning of the programme**

#### **Positioning of the programme within the University cursus**

The bachelor's degree entitles access to the master's of Medecine.

The medical profession will, however, only be accessible after complementary professional training (complementary master's) which comes after the completion of the master's of medecine.

The professional perspectives for a Doctor in medecine are numerous :

- he may either opt for medicinal healing and therefore orientate himself towards general medecine or specialised medecine. The choice of any of these professions will nevertheless involve specialised training, essentially of a practical nature, lasting from 2 to 7 years.
- or he may orientate himself to the practice of non-curative medical activities : this is the field of public health and the medico-legal domain. He may likewise choose to opt for research and join a laboratory at a university or in industry.

#### **Other studies available upon completion of the programme**

**Master's programme(s) accessible, without complementary prerequisites :** Public Health.

**Master's programmes accessible, subject to prerequisites :** master's of Pharmaceutical Sciences, master's of Biomedical Sciences, master's of Dental Science.

**Others :** master's programme accessible, subject to an adapted programme : master's of Biological Science.

## Useful contacts

### Programme management

**CEMD** Commission permanente de l'enseignement de l'école de médecine

President : Roger Detry, Tel. 027645020

Vice-President : Michel Delmée, Tel. 027645490

Administration Manager : Marie-France Zabus, Tel. 027645034

Secretaries : Laurence Bertrand and Nadine Bussy, Tel. 027645020 secretaire@smed.ucl.ac.be

### Teaching Committee

M. Buysschaert, M. Crommelinck, M. Delmée (vice-président), R. Detry (président), J. Donnez, M. Gersdorff, A. Geubel, Fr. Houssiau, L. Hue, M. Lambert, J. Lebacq, M.-Chr. Many, D. Moulin, D. Pestiaux, J.-J. Rombouts, D. Van Pee, C. Vanwelde, V. Godin et M.-Fr. Zabus.

The student members are listed at the beginning of the academic year.

### Study Advisor

The Study advisor assists the student in the elaboration of his training programme in accordance with his previous studies and personal ambitions.

Study Advisor : Véronique Godin (Tel. 027645078 - 7257, godin@pedm.ucl.ac.be, Centre faculté -1)

### Exam Jury

#### 1st year of the Bachelor's

President of the jury : M.-C. Many

Secretary of the jury : P. Depovere

#### 2nd year of the Bachelor's

President of the jury : still to be determined

Secretary of the jury : still to be determined

## Detailed content of standard programme

### MED 11BA First year of studies

#### Foundation studies (60 credits)

*The courses listed below may be followed during the 1st year of the bachelor programme. They do not need any prerequisites.*

<u>MED1111</u>	Philosophie[30h] (3 credits) (in French)	N.
<u>MD1001</u>	Experimental physics and mathematical introduction to experimental sciences (1st part)[60h+18.5h] (8 credits) (in French)	Bernard Piraux
<u>MD1002</u>	Experimental physics and mathematical introduction to experimental sciences (2nd part)[30h+21h] (5 credits) (in French)	Bernard Piraux
<u>MD1003</u>	Mineral and general chemistry[60h+28h] (8 credits) (in French)	Paul Depovere, Claude Ronneau
<u>MD1004</u>	Organic Chemistry[60h+30h] (9 credits) (in French)	Paul Depovere, Jacques Fastrez, Jean-Philippe Soumillion (coord.)
<u>MD1005</u>	Biologie générale[65h+25h] (9 credits) (in French)	Jean Baptiste Demoulin, Marie-Christine Many, Philippe van den Bosch Sanchez de Aguilar
<u>MD1006</u>	Cytology and general histology[10h+40h] (5 credits) (in French)	Jean-François Deneff, Marie-Christine Many (supplée Jean-François Deneff)
<u>MD1007</u>	General, systemic and functional anatomy[45h] (5 credits) (in French)	Benoît Lengelé
<u>MED1001</u>	Elements of biophysics[15h+2.5h] (3 credits) (in French)	Bernard Piraux
<u>MED1002</u>	Séminaire interdisciplinaire d'anthropologie biologique[30h] (3 credits) (in French)	N.

As a complement to the lectures and the practical exercises or supervised pieces of work for the courses in Physics, Chemistry and Biology, the instructors assume complementary support activities in small groups which help the students to enhance their learning of the subject matter. The student is encouraged to participate in these activities, depending on his learning needs.

<u>MD1011</u>	Activités d'encadrement complémentaire en physique (par séries)[12h] (in French)	Bernard Mahieu, Bernard Piraux
<u>MD1013</u>	Activités d'encadrement complémentaire en chimie générale et minérale (par séries)[12h] (in French)	Paul Depovere, Daniel Peeters, Claude Ronneau, Etienne Sonveaux (coord.)
<u>MD1014</u>	Activités d'encadrement complémentaire en chimie organique (par séries)[12h] (in French)	Paul Depovere, Jacques Fastrez, Jacques Poupaert, Etienne Sonveaux,

<u>MD1015</u>	General Biology (Complementary activities)[12h] (in French)	Jean-Philippe Soumilion (coord.) Pascal Kienlen-Campard
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## MED 12BA Second year of studies






### Compulsory courses



<u>ANAT1207</u>	Special topographic and clinical Anatomy[75h+65h] (12 credits) (in French)	Benoît Lengelé
<u>BCHM1210T</u>	Biochimie générale (partim théorie 67,5h)[67.5h+30h] (8 credits) (in French)	Frederik Opperdoes, Emile Van Schaftingen
<u>FYSL1210</u>	General Physiology[60h+24h] (8 credits) (in French)	Philippe Gailly, Jean Lebacqz
<u>ANGL1850</u>	Medical English[60h] (3 credits)	Timothy Byrne, Dominique François, Marielle Henriet, Susan Jackman, Françoise Stas
<u>ISTO1201</u>	Normal histology of systems (part 1)[19h+30h] (4 credits) (in French)	Jean-François Deneff (coord.), Marie-Christine Many, Jean-Marie Scheiff
<u>ANAT1110</u>	Embryology[30h] (3 credits) (in French)	André Goffinet
<u>BCHM1230</u>	Cell and molecular biology[22.5h+22.5h] (4 credits) (in French)	Pierre Courtoy
<u>MED1270</u>	Psychologie[30h] (3 credits) (in French)	Marc Crommelinck, Jacques Van Rillaer
<u>PHAR1230</u>	General pharmacology[25h] (3 credits) (in French)	Jean-Marie Maloteaux
<u>FARM1282T</u>	Microbiologie générale (partim théorie 18h)[18h+15h] (2 credits) (in French)	Thomas Michiels
<u>MED1200</u>	Eléments d'épidémiologie[15h] (2 credits) (in French)	Benoît Boland
<u>MED1280</u>	Introduction to medical practice[8h+40h] (2 credits) (in French)	Guy Beuken, Martin Buyschaert, Alex Kartheuser, Karin Levie, Marc Maes, Dominique Pestiaux (coord.), Christian Swine
<u>FYSL1211</u>	Cardiovascular and Respiratory Physiology[30h+8h] (4 credits) (in French)	Guy Heyndrickx, Giuseppe Liistro

**Option : 2 credits.**

## MED 13BA Third year of studies

### Compulsory studies

<u>ANAT1370</u>	Radiologic anatomy and normal imaging[30h+7.5h] (3 credits)  (in French)	N.
<u>ANPG1300</u>	General Pathology[10h+20h] (2 credits) (in French)	Etienne Marbaix, Jacques Rahier
<u>BCHM1310</u>	Human Biochemistry and Genetics[70h+16h] (9 credits)  (in French)	N.
<u>FYSL1311</u>	Renal physiology and pathophysiology[30h+14h] (4 credits)  (in French)	N.
<u>FYSL1302</u>	Human physiology and pathophysiology (part 2) : the endocrine, digestive and reproductive systems.[60h+12h] (8 credits) (in French)	Jean-Claude Henquin
<u>FYSL1303</u>	Physiology and physiopathology (3rd part) : Nervous system.[75h+12h] (8 credits) (in French)	Marc Crommelinck, Etienne Olivier, Léon Plaghki, André Roucoux (coord.)
<u>ISTO1301</u>	Normal histology of systems (part 2)[15h+25h] (4 credits) (in French)	Idesbald Colin (supplée Jean-François Deneff), Jean-François Deneff, Marie-Christine Many (coord.), Jean-Marie Scheiff
<u>MCBL1330</u>	Medical Microbiology[50h+12.5h] (6 credits) (in French)	Michel Delmée, Patrick Goubau
<u>MED1300</u>	Basic pathology and introduction to medical semeiology[30h] (3 credits) (in French)	Pierre Courtoy
<u>PSME1300</u>	Medical psychology[30h] (3 credits)  (in French)	N.
<u>MED1385</u>	Séminaire interdisciplinaire de sciences humaines[15h] (2 credits)  (in French)	N.

<u>MED1301</u>	Sémiologie et intégration physiopathologique[15h+15h] (3 credits)  (in French)	N.
<u>SBIM1304P</u>	Immunologie générale (partim 30h)[45h] (3 credits)  (in French)	N.

**Option:** 2 credits.

#### Optional courses

Besides the compulsory courses, during the course of the first cycle, the students must :

- either follow at least the equivalent of 4 credits of options
- or have the status of "monitor student"

The student may also begin his work as a research student, but this will not be recognised until the end of the 2nd cycle and will therefore not make him exempt from following one of the two activities listed above.

#### Options offered in the 1st cycle

*The student may, if he so wishes, follow another course than those listed above (courses from the Biomedical Sciences, Pharmacy and Public Health programmes...), subject to the previous agreement of the president of his year committee.*

<u>ANAT2120</u>	Compléments de biologie cellulaire et moléculaire[30h] (3 credits) (in French)	Pierre Courtoy (coord.), Pascal Kienlen-Campard, Jean-Noël Octave, Marie-France Vandembroucke
<u>BCHM2120</u>	Supplementary Biochemistry[30h] (2 credits) (in French)	Luc Bertrand, Mark Rider
<u>BCMM2130</u>	Biochemistry of Metabolic Diseases[30h] (2 credits) (in French)	Marie-Cécile Nassogne, Marie-Françoise Vincent
<u>SBIM1001</u>	MATHEMATICAL METHODS IN BIOMEDICAL SCIENCES[22.5h+22.5h] (4 credits) (in French)	André Nauts
<u>FARM2147</u>	Statistical data processing[15h+15h] (2 credits) (in French)	Jean Cumps
<u>FYSL2110</u>	Questions spéciales de physiologie[30h] (in French)	N.
<u>GEMO2110</u>	Molecular and medical genetics[30h] (2 credits) (in French)	Christine Dumoulin
<u>INFM2111</u>	Eléments d'informatique médicale[15h+15h] (2 credits) (in French)	Benoît Debande

*Also available for the training of the future doctors are courses in the domain of Psychology, including :*

<u>PSP1160</u>	Child and adolescent psychology[45h] (3.5 credits) (in French)	James Day (coord.), Xavier Renders
<u>PSP1214</u>	Social psychology[30h+5h] (3 credits) (in French)	Vincent Yzerbyt

#### Monitor students

After having accomplished one year of studies, the student may participate in supporting students from lower years, for the courses in : Histology, Human Anatomy, General Physiology, Neurophysiology, General Biochemistry and Cellular and Molecular Biology.

Complementary information regarding this activity can be obtained from the lecturers or assistants.

#### Research students

Those students who so desire may get into direct contact with fundamental or clinical research as from the end of their first year of studies in Medecine. This activity is not considered as an option. It will be recognised at the end of the 2nd cycle. Professor L. Hue is the President of the Research students Committee (secretary's office : ICP 75 + 1, 02 7647529).

The detailed reglementation and the application formula for this status are available on simple request at the secretary's office of the School of Medecine (Faculty Centre, level 0, "Centre Faculté niveau 0").