

### Information

Professor C. CHARLIER  
Pharmacy  
Toxicological chemistry B36  
Avenue de l'Hôpital, 1  
4000 Liège  
Phone : 04/366.88.18  
e-mail : C.Charlier@ulg.ac.be

### Presentation

The Advanced Master in Clinical Biology provides a theoretical and practical training in clinical biology. After this training, the candidate will be able to control the entire process of analysis of biological products for accurate diagnosis of disease, assess prognosis or therapeutic response or in regard to the transferable nature .

This training includes theoretical and practical courses in the three core subjects of clinical biology that are medicinal chemistry, hematology and microbiology. Students also have internships in an appropriate laboratory hospital, under the guidance of tutors officially recognized by the Ministry of Public Health.

### Duration

- \* Five years of study: two years of basic study (FUS) and three years of specialised education.
- \* Spreading the courses over several years is possible with the approval of the Board of Studies. Nonetheless, when the student has also registered a training programme plan, it is not possible to spread the specialisation over several years.

### Collegiality

Coordinator : Etienne CAVALIER  
Adelin ALBERT, Corinne CHARLIER, Geneviève CHRISTIAENS, Christiane GERARD, André GOTHOT, Marie-Pierre HAYETTE, Daniel LECLERCQ, Pierrette MELIN.

In addition to the teachers, the following persons contribute to the teaching : Raphaël DENOZ, Vinciane DIDEBERG, Nathalie DUBOIS, Jeanine HALENG, Frédéric LAMBERT, François LUYCKX, Pierre PETERS, Nicole SCHAAF, Françoise TASSIN.

## First Year

### Compulsory courses

BICS2105-1	<i>Inter-university program</i>				<b>10</b>
	- <i>Medical biochemistry, toxicology and therapeutic monitoring, 1st year - COLLÉGIALITÉ</i>	12	8	-	
	- <i>Microbiology, 1st year - COLLÉGIALITÉ</i>	12	8	-	
	- <i>Hematology - COLLÉGIALITÉ</i>	12	8	-	
	- <i>Elements of immunopathology, 1st year - COLLÉGIALITÉ</i>	4,5	4,5	-	
	- <i>Introduction to molecular diagnosis, 1st year - COLLÉGIALITÉ</i>	2,5	2,5	-	
	- <i>Legal and organizational aspects of clinical biology, 1st year - COLLÉGIALITÉ</i>	2,5	2,5	-	
	- <i>Statistics applied to clinical biology, 1st year - COLLÉGIALITÉ</i>	2,5	2,5	-	
	- <i>Seminars on clinical biology, 1st year - COLLÉGIALITÉ</i>	18	30	-	
BICP2111-2	<i>University program</i>				<b>20</b>
	- <i>Seminars on medical chemistry, 1st year - Etienne CAVALIER - [120h SEM]</i>	25	-	[+]	
	- <i>Séminaires de microbiologie et infectiologie, 1re année - MariePierre HAYETTE, Pierrette MELIN - [120h SEM]</i>	25	-	[+]	
	- <i>Seminars on hematology, 1st year - André GOTHOT - [120h SEM]</i>	25	-	[+]	
	- <i>Seminars on medicamentous toxicology, 1st year - Corinne CHARLIER - [120h SEM]</i>	15	-	[+]	
	- <i>Blood group serology, 1st year - Christiane GÉRARD</i>	15	90	-	
	- <i>Biostatistics 2, 1st year - Adelin ALBERT</i>	15	15	-	
	- <i>Multivariate statistical analysis, 1st year - Adelin ALBERT</i>	10	10	-	
	- <i>Study of the human genome in normal and pathological methods of molecular biology, 1st year - N...</i>	10	10	-	
	- <i>Quality insurance, 1st year - Etienne CAVALIER</i>	10	10	-	
MSTG2017-1	<i>Placements, 1st year - COLLÉGIALITÉ - [11half-d Internship]</i>	-	-	[+]	<b>30</b>

## Second year

### Compulsory courses

BICS2205-1	<i>Inter-university program</i>				<b>10</b>
------------	---------------------------------	--	--	--	-----------

	- <i>Medical biochemistry, toxicology and therapeutic monitoring, 2nd year - COLLÉGIALITÉ</i>	12	8	-	
	- <i>Microbiology, 2nd year - COLLÉGIALITÉ</i>	12	8	-	
	- <i>Hematology, 2nd year - COLLÉGIALITÉ</i>	12	8	-	
	- <i>Elements of immunopathology, 2nd year - COLLÉGIALITÉ</i>	4,5	4,5	-	
	- <i>Introduction to molecular diagnosis, 2nd year - COLLÉGIALITÉ</i>	2,5	2,5	-	
	- <i>Legal and organizational aspects of clinical biology, 2nd year - COLLÉGIALITÉ</i>	2,5	2,5	-	
	- <i>Statistics applied to clinical biology and quality control, 2nd year - COLLÉGIALITÉ</i>	2,5	2,5	-	
	- <i>Seminars on clinical biology, 2nd year - COLLÉGIALITÉ</i>	18	30	-	
BICP2211-2	<i>University program</i>				<b>20</b>
	- <i>Seminars on medical chemistry, 2nd year - Etienne CAVALIER - [120h SEM]</i>	25	-	[+]	
	- <i>Seminars on microbiology and infectiology, 2nd year - MariePierre HAYETTE, Pierrette MELIN - [120h SEM]</i>	25	-	[+]	
	- <i>Seminars on hematology, 2nd year - André GOTHOT - [120h SEM]</i>	25	-	[+]	
	- <i>Seminars on medicamentous toxicology, 2nd year - Corinne CHARLIER - [120h SEM]</i>	15	-	[+]	
	- <i>Blood group serology, 2nd year - Christiane GÉRARD</i>	15	90	-	
	- <i>Biostatistics 2, 2nd year - Adelin ALBERT</i>	15	15	-	
	- <i>Multivariate statistical analysis, 2nd year - Adelin ALBERT</i>	10	10	-	
	- <i>Study of the human genome in normal and pathological methods of molecular biology, 2nd year - N...</i>	10	10	-	
	- <i>Quality insurance, 2nd year - Etienne CAVALIER</i>	10	10	-	
MSTG2017-2	<i>Placements, 2nd year - COLLÉGIALITÉ - [11half-d Internship]</i>	-	-	[+]	<b>30</b>

### Third year

#### Compulsory courses

BICP2010-1	<i>Certificate in taking blood samples by clinical biologists</i>				<b>10</b>
	- <i>Techniques de prélèvement d'échantillons sanguins chez l'homme, instrumentation, mesures de sécurité, contre-indications, populations particulières, 3rd year - Daniel LECLERCQ</i>	5	10	-	
	- <i>Hygiène hospitalière, 3rd year - Geneviève CHRISTIAENS</i>	2,5	-	-	
	- <i>Prélèvements sanguins et traitement pré-analytique - Etienne CAVALIER</i>	2,5	10	-	
MSTG2017-3	<i>Placements, 3rd year - COLLÉGIALITÉ - [11half-d Internship]</i>	-	-	[+]	<b>50</b>

### Fourth year

#### Compulsory courses

MSTG2017-4	<i>Placements, 4th year - COLLÉGIALITÉ - [11half-d Internship]</i>	-	-	[+]	<b>60</b>
------------	--	---	---	-----	-----------

### Fifth year

#### Compulsory courses

MTFE2033-1	<i>Final work - COLLÉGIALITÉ</i>	-	-	-	<b>15</b>
MSTG2017-5	<i>Placements, 5th year - COLLÉGIALITÉ - [11half-d Internship]</i>	-	-	[+]	<b>45</b>