

**BBMC2M**

2014 - 2015

Master [120] in Biochemistry and Molecular and Cell

Biology

**At Louvain-la-Neuve - 120 credits - 2 years - Day schedule - In french**Dissertation/Graduation Project : **YES** - Internship : **YES**Activities in English: **YES** - Activities in other languages : **NO**Activities on other sites : **YES**Organized by: **Faculté des sciences (SC)**Programme code: **bbmc2m** - European Qualifications Framework (EQF): 7**Table of contents**

Introduction .....	2
Teaching profile .....	3
- Learning outcomes .....	3
- Programme structure .....	3
- Detailed programme .....	3
- Programme by subject .....	3
Information .....	12
- Admission .....	12
- Teaching method .....	14
- Evaluation .....	14
- Mobility and/or Internationalisation outlook .....	14
- Possible trainings at the end of the programme .....	14
- Contacts .....	14

## BBMC2M - Introduction

### Introduction

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## BBMC2M - Teaching profile

### Learning outcomes

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### Programme structure

The programme comprises core subjects of 75 credits, a focus (30 credits) as well as an option course of 15 credits.

Students must choose one of the following focuses : research, professional (biotechnology) or teaching.

The option courses available are : biochemistry, molecular genetics and microbial cellular physiology, plant molecular genetics and cellular physiology, animal and human molecular genetics and cellular physiology.

*Whatever the focus or the options chosen, the programme of this master shall totalize 120 credits, spread over two years of studies each of 60 credits.*

[> Tronc commun](#) [ en-prog-2014-bbmc2m-lbbmc200t.html ]

Focuses

[> Research focus](#) [ en-prog-2014-bbmc2m-lbbmc200a ]

[> Teaching focus](#) [ en-prog-2014-bbmc2m-lbbmc200d ]

[> Professional focus:Biotechnology](#) [ en-prog-2014-bbmc2m-lbbmc200s ]

[> Cours au choix](#) [ en-prog-2014-bbmc2m-lbbmc300o.html ]

## BBMC2M Detailed programme

### Programme by subject

#### CORE COURSES [54.0]

● 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...)

						Year	
						1	2
● LBBMC2101	Biochimie structurale et fonctionnelle	Pierre Morsomme, Patrice Soumillion	36h+6h	4 Credits	1q	x	
● LBRMC2201	Bioinformatique : DNA and protein sequences	Michel Ghislain (coord.), Jacques Mahillon	30h+15h	4 Credits	1q	x	
● LBBMC2102	Biologie moléculaire et cellulaire intégrée	Henri Batoko, Bernard Hallet, Pierre Morsomme, René Rezsóhazy, Yves-Jacques Schneider	30h	3 Credits	1q	x	

Year

1 2

○ LBBMC2103	Rotation	Henri Batoko, François Chaumont, Françoise Gofflot, Bernard Hallet, Bernard Knoops, Patrice Soumillion (coord.)	12h+36h	8 Credits	1q	x	
○ LBBMC2997	Mémoire - 1ère partie	N.		10 Credits	2q	x	
○ LBBMC2998	Mémoire - 2ème partie	N.		17 Credits	2q		x
○ LBBMC2201	Thesis tutorial	Patrick Dumont	18h	3 Credits	1q		x

### ○ Techniques de biochimie et de biologie moléculaire (3 credits)

un cours parmi les trois suivants :

⊗ LBIRC2101A	Analyse biochimique et notions de génie génétique: analyse biochimique	Marc Boutry, François Chaumont, Pierre Morsomme	18.5h +22.5h	3 Credits	1q	x	
⊗ LBRMC2101	Genetic engineering	Marc Boutry	30h+7.5h	3 Credits	1q	x	
⊗ LBRMC2202	Cell culture technology	Marc Boutry (coord.), Pascal Hols, Yves-Jacques Schneider	30h	3 Credits	1q	x	

### ○ Sciences humaines (2 credits)

un cours parmi les trois suivants :

⊗ LSC2001	Introduction to contemporary philosophy	Nathalie Frogneux	30h	2 Credits	2q	x	
⊗ LSC2220	Philosophy of science	Alexandre Guay	30h	2 Credits	2q	x	
⊗ LFILO2003E	Ethics in the Sciences and technics (sem)	N.		2 Credits		x	x

**LIST OF FOCUSES**

Une finalité à choisir parmi les trois suivantes :

- > [Research focus](#) [ en-prog-2014-bbmc2m-lbbmc200a ]
- > [Teaching focus](#) [ en-prog-2014-bbmc2m-lbbmc200d ]
- > [Professional focus:Biotechnology](#) [ en-prog-2014-bbmc2m-lbbmc200s ]

**RESEARCH FOCUS [30.0]**

- 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...)

						Year	
						1	2
○ LBBMC2205	<a href="#">Stage de recherche - 1ère partie</a>	Bernard Hallet	25h+40h	20 Credits	2q		x
○ LBBMC2203	<a href="#">Ateliers interuniversitaires</a>	Henri Batoko, Marc Boutry, François Chaumont, Cathy Debier, Bernard Hallet, Bernard Knoops, Yvan Larondelle, Pierre Morsomme, Patrice Soumillion (coord.)	40h+40h	5 Credits			x

**○ Activité(s) au choix (5 credits)**

à choisir dans la liste des activités au choix.

**TEACHING FOCUS [30.0]**

- 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...)

						Year	
						1	2
○ LBIO2310	<a href="#">Stages d'enseignement en biologie (en ce compris le séminaire d'intégration des stages)</a>	Myriam De Kesel	15h+40h	7 Credits	1 + 2q	x	x

**○ Module concevoir, planifier et évaluer des pratiques d'enseignement et d'apprentissage**

○ LAGRE2220	<a href="#">General didactics and education to interdisciplinarity</a>	Myriam De Kesel (coord.), Cécile Delens, Jean-Louis Dufays, Anne Ghysseleux, Jim Plumet, Marc Romainville, Bernadette Wiame	37.5h	3 Credits	2q	x	x
○ LSNAT2320	<a href="#">Didactique et épistémologie des sciences naturelles</a>	Myriam De Kesel, Bernard Tinant	60h	6 Credits	1 + 2q	x	x

**○ Un cours parmi les trois suivants (4 credits)**

⊗ LMAT2320A	<a href="#">Didactique et épistémologie de la mathématique (en ce compris le stage d'écoute)</a>	Christiane Hauchart	37.5h +10h	4 Credits	1q	x	x
⊗ LPHY2320A	<a href="#">Didactique et épistémologie de la physique (en ce compris le stage d'écoute)</a>	Jim Plumet	37.5h +10h	4 Credits	1 + 2q	x	x

						Year	
						1	2
⌘ LGEO2320A	Didactique et épistémologie de la géographie (en ce compris le stage d'écoute)	Marie-Laurence De Keersmaecker	37.5h +10h	4 Credits	1q	x	x

### o Module comprendre et analyser l'institution scolaire et son contexte

○ LAGRE2120	The school institution and its context	Branka Cattonar, Karine Dejean, Vincent Dupriez, Christian Lannoye (coord.), Caroline Letor, Rudi Wattiez	22.5h +25h	4 Credits	1 ou 2q	x	x
○ LAGRE2400	See specifications in french	Michel Dupuis, Anne Ghysselinckx (coord.)	20h	2 Credits	2q	x	x

### o Module animer un groupe et travailler en équipe

○ LAGRE2020	To understand the adolescent in school situation, to manage the interpersonal relationship and to animate the class group	James Day, Xavier Dejemepe, Bernard Demuysere, Jean Goossens, Christian Lannoye, Pierre Meurens, Pascale Steyns (coord.), Pascal Vekeman	22.5h +22.5h	4 Credits	1 ou 2q	x	x
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**PROFESSIONAL FOCUS: BIOTECHNOLOGY [30.0]**

● 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...)

Year

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● LBBMC2215	Stage en entreprise	René Rezsohazy	25h+40h	20 Credits			x
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**⊗ Biotechnologie et initiation au monde de l'entreprise (10 credits)**

Au moins 5 crédits à choisir dans les activités au choix de biotechnologie ci-dessous et les autres dans la liste des cours au choix

⊗ LBIRC2108	Biochemical and Microbial Engineering	Spyridon Agathos	30h +22.5h	5 Credits	2q		x
⊗ LBRNA2202	Nano-biotechnologies	Yves Dufrêne	30h	3 Credits	2q		x
⊗ LBIRA2102	Applied biotechnology	Isabelle Donnay, Xavier Draye, Jacques Mahillon (coord.)	30h+7.5h	4 Credits	1q		x
⊗ LBRAL2101	Beer organoleptic and microbiological quality	Sonia Collin (coord.), Marc Maudoux	30h +22.5h	5 Credits	2q		x
⊗ LBRAL2104	Food microbiology	Jacques Mahillon	30h +22.5h	5 Credits	2q		x
⊗ LBRAL2103	Food chemistry	Sonia Collin	30h +22.5h	5 Credits	1q		x
⊗ LBBMC2213	Atelier de formation à la recherche en entreprise	N.		5 Credits			x
⊗ LCHM2244	Medicinal chemistry	Istvan Marko, Yves-Jacques Schneider	22.5h +7.5h	3 Credits	1q		x
⊗ LCHM2280	Industrial chemistry	Marcel Ceresiat, Marc Lacroix	30h	3 Credits	2q		x
⊗ WFARM2241	Pharmacokinetics and clinical biology	Laure Elens, Pierre Wallemacq (coord.)	30h+15h	4 Credits	1q		x
⊗ WSBIM2248	Toxicologie industrielle et environnementale	N.	82.5h	10 Credits	1 + 2q		x
⊗ WFARM1303	Clinical Chemistry	Jean-Philippe Defour, Catherine Fillee, Teresinha Leal, Marianne Philippe, Marie-Françoise Vincent, Pierre Wallemacq (coord.)	20h	2 Credits	2q		x
⊗ WBICL2107	Principe et méthodologie des dosages immunologiques	Diane Maisin, Diane Maisin (compensates Marianne Philippe), Marianne Philippe (coord.)	15h+40h	3 Credits	2q		x
⊗ WESP2123	Principes des essais cliniques	Laurence Habimana, Annie Robert (coord.), Françoise Smets	20h+10h	4 Credits	1q		x
⊗ WSBIM2230	Biochimie des erreurs innées du métabolisme	Marie-Cécile Nassogne, Marie-Françoise Vincent (coord.)	30h	3 Credits	1q		x
⊗ LBRAL2201C	Technologie alimentaire: procédés biotechnologies	N.		1 Credits			x x
⊗ LBRAL2201D	Technologie alimentaire: transformations des produits végétaux et animaux	N.		2 Credits			x x

**⊗ Initiation au monde de l'entreprise**

⊗ LBIR1344	Firm management and organisation	Isabelle Callens	30h+7.5h	3 Credits	2q	x	x
⊗ LFSA2140	Elements of law for industry and research	Fernand De Visscher, Werner Derijcke, Bénédictte Inghels	30h	3 Credits	1q	x	x
⊗ LFSA2230	Introduction to management and to business economics	Benoît Gailly	30h+15h	4 Credits	2q	x	x

						Year	
						1	2
⊗ LFSA3010	Principes de communication scientifique	Yves Deville, Xavier Gonze, Michel Verleysen	15h+15h	3 Credits	2q	x	x
⊗ LSC3001	Recherche, innovation et propriété intellectuelle : applications aux secteurs de la chimie et aux sciences de la vie	Thierry Debled, Francis Leyder	30h	3 Credits	1q	x	x
⊗ LDROP2101	Economic Aspects of Intellectual Property	Dominique Kaesmacher, Alain Strowel, François Wéry	30h	5 Credits	2q	x	x
⊗ LDROP2102	In-depth study of questions on intellectual property rights	Alain Strowel	30h	5 Credits	2q	x	x
⊗ LDROP2103	Law on intellectual property contr	Vincent Cassiers, Fernand De Visscher	30h	5 Credits	2q	x	x
⊗ LBBMC2213	Atelier de formation à la recherche en entreprise	N.		5 Credits		x	x
⊗ LBRAI2208	Firms and Markets : Strategic Analysis	Frédéric Gaspart	30h+15h	3 Credits	1q	x	x



## Cours au choix [36.0]

○ 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...)

Year

1 2

### o Cours au choix - un module obligatoire parmi les suivants (10 credits)

#### o Module d'approfondissement en biochimie

⊗ LBBMC2104	Biochimie physiologique animale	Cathy Debier, Marc Francaux, Pierre Morsomme (compensates Marc Francaux), Yves-Jacques Schneider (coord.)	36h+18h	5 Credits	2q	x	
⊗ LBBMC2105	Ingénierie des protéines et enzymologie	Pierre Morsomme, Patrice Soumillion	36h+18h	5 Credits	2q	x	

#### o Module d'approfondissement en microbiologie

⊗ LBBMC2106	Génétique moléculaire et génomique microbiennes	Bernard Hallet, Pascal Hols	36h+18h	5 Credits	2q	x	
⊗ LBBMC2107	Physiologie cellulaire microbienne	Stephan Declerck, Michel Ghislain, Bernard Hallet, Pascal Hols, Pierre Morsomme	36h+18h	5 Credits	2q	x	

#### o Module d'approfondissement en biologie végétale

⊗ LBBMC2108	Génétique moléculaire et génomique végétale	Henri Batoko, François Chaumont (coord.), Xavier Draye	36h+18h	5 Credits	2q	x	
⊗ LBBMC2109	Physiologie cellulaire végétale	Henri Batoko, Marc Boutry, François Chaumont, Pierre Morsomme, Pierre Morsomme (compensates Henri Batoko)	36h+18h	5 Credits	2q	x	

#### o Module d'approfondissement en biologie animale et humaine

⊗ LBBMC2110	Génétique moléculaire et génomique animales et humaines	Françoise Gofflot, Bernard Knoops, René Rezsohazy	36h+18h	5 Credits	2q	x	
⊗ LBBMC2111	Physiologie cellulaire animale et humaine	Patrick Dumont, Bernard Knoops	36h+18h	5 Credits	2q	x	

### o Autres cours au choix (26 credits)

#### ⊗ Module optionnel et conditionnel CPME (25 credits)

Pour les étudiants n'ayant pas les prérequis en gestion, le cours LCPME 2000 : Fondements de la gestion de la PME doit figurer à leur programme de 1ère année de master.

○ LCPME2000	Venture creation financement and management I	Régis Coeurderoy, Olivier Giacomini, Paul Vanzeveren	30h+15h	5 Credits	1 + 2q	x	x
○ LCPME2001	Entrepreneurship Theory (in French)	Frank Janssen	30h+20h	5 Credits	1q	x	x
○ LCPME2002	Managerial, legal and economic aspects of the creation of a company (in French)	Régis Coeurderoy, Yves De Cordt	30h+15h	5 Credits	1q	x	x

						Year	
						1	2
○ LCPME2003	Business plan of the creation of a company (in French)	Frank Janssen	30h+15h	5 Credits	2q	x	x
○ LCPME2004	Advanced seminar on Entrepreneurship (in French)	Frank Janssen	30h+15h	5 Credits	2q	x	x

### ✘ Autres cours au choix

✘ LBBMC2206	Stage - 2ème partie	Bernard Hallet, René Rezsóhazy	10h+10h	10 Credits	2q	x	x
✘ LBBMC2204A	Pharmacologie cellulaire et moléculaire - concepts de base	Yves-Jacques Schneider	30h	3 Credits	1q	x	x
✘ LBBMC2204B	Pharmacologie cellulaire et moléculaire - application à une pathologie : de la biologie moléculaire au traitement.	Patrick Dumont, Bernard Knoops, Yves-Jacques Schneider	24h	2 Credits	2q	x	x
✘ LBRTE2201	Human and environmental toxicology	Alfred Bernard, Cathy Debier (coord.)	45h+7.5h	5 Credits	1q	x	x
✘ LBRTI2203	Communication scientifique dans le domaine des sciences exactes	Pascale Gualtieri (coord.), Joël Saucin	30h	3 Credits	1q	x	x
✘ LSTAT2360	Seminar in data management: basic	Catherine Legrand	7.5h+10h	6 Credits	1q	x	x

### ✘ Un des autre cours de techniques

✘ LBIRC2101A	Analyse biochimique et notions de génie génétique: analyse biochimique	Marc Boutry, François Chaumont, Pierre Morsomme	18.5h +22.5h	3 Credits	1q	x	x
✘ LBRMC2101	Genetic engineering	Marc Boutry	30h+7.5h	3 Credits	1q	x	x
✘ LBRMC2202	Cell culture technology	Marc Boutry (coord.), Pascal Hols, Yves-Jacques Schneider	30h	3 Credits	1q	x	x

### ✘ Autres cours des modules d'approfondissement

### ✘ Activités du master en sciences biomédicales de l'UCL

### ✘ Activités du master BBMC des FUNDP

### ✘ Activités de mise à niveau

✘ LBIO1335	Immunology	Jean-Paul Dehoux	25h+15h	3 Credits	1q	x	x
✘ LBIO1322	Integrated tutorials in biochemistry and molecular genetics	Bernard Hallet, Patrice Soumillon	0h+60h	5 Credits	2q	x	x
✘ LBIO1233	Animal physiology and morphology	Patrick Dumont (coord.), Françoise Gofflot, René Rezsóhazy	30h+30h	5 Credits	2q	x	x
✘ LBIO1342	Plant morphogenesis	François Chaumont	20h+15h	3 Credits	2q	x	x
✘ LBIO1341	Plant physiology	Xavier Draye, Isabelle Lefèvre (compensates Stanley Lutts), Stanley Lutts	45h+15h	5 Credits	2q	x	x
✘ LBIO1332	Animal embryology	René Rezsóhazy	25h+15h	3 Credits	1q	x	x
✘ LBIO1336	Animal Biochemistry, physiology and histology	Patrick Dumont, Françoise Gofflot	30h+30h	5 Credits	2q	x	x
✘ LCHM1211	General Chemistry 2	Michel Devillers, Bernard Tinant	30h+54h	6 Credits	2q	x	x
✘ LCHM1331	Inorganic chemistry I	Michel Devillers, Sophie Hermans (compensates Michel Devillers)	37.5h +7.5h	4 Credits	1q	x	x
✘ LBIR1317	Chimie organique (3è partie)	Benjamin Elias	30h+15h	3 Credits	1q	x	x
✘ LCHM1321A	Analytical chemistry	Christine Dupont, Yann Garcia	30h	3 Credits	1q	x	x
✘ LCHM1361	Introduction to polymer chemistry	Jean-François Gohy	22.5h	2 Credits	2q	x	x
✘ LCHM1251	Elements of crystallography and molecular spectroscopy	Yaroslav Filinchuk, Sophie Hermans	60h+30h	8 Credits	1 + 2q	x	x

Year

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## ⊗ Cours au choix complémentaires à la finalité didactique

⊗ LCHM2330	Séminaire de didactique de la chimie	Agnès Gnagnarella, Bernard Tinant	0h+30h	5 Credits	2q	x	x
⊗ LGEO2330	Séminaire de didactique de la géographie	Marie-Laurence De Keersmaecker	0h+30h	5 Credits		x	x
⊗ LMAT2330	Seminar on the teaching of mathematics	Christiane Hauchart, Enrico Vitale	15h+30h	5 Credits	1 + 2q	x	x
⊗ LPHY2330	Séminaire de didactique de la physique	Jim Plumet	0h+30h	5 Credits		x	x

## ⊗ Activités du master en chimie

## BBMC2M - Information

### Admission

*General and specific admission requirements for this program must be satisfied at the time of enrolling at the university..*

Le dossier de demande d'admission est à adresser au Secrétariat du Département de biologie - Carnoy - Place Croix du Sud 4 à 1348 Louvain-la-Neuve

- [University Bachelors](#)
- [Non university Bachelors](#)
- [Holders of a 2nd cycle University degree](#)
- [Holders of a non-University 2nd cycle degree](#)
- [Adults taking up their university training](#)
- [Personalized access](#)

### University Bachelors

Diploma	Special Requirements	Access	Remarks
<b>UCL Bachelors</b>			
CHIM1BA - Bachelier en sciences chimiques		Direct access	
BIOL1BA - Bachelier en sciences biologiques		Direct access	
SBIM1BA		Access with additional training	
		Direct access	
<a href="#">Bachelor in Medecine</a>		Direct access	Le choix des cours de 1ère année de master pourrait être adapté en fonction de la formation antérieure.
<a href="#">Bachelor in Veterinary Medicine</a>		Direct access	Le choix des cours de 1ère année de master pourrait être adapté en fonction de la formation antérieure.
<b>Others Bachelors of the French speaking Community of Belgium</b>			
Bachelier en sciences chimiques		Direct access	
		Direct access	
Bachelier en sciences de l'ingénieur - orientation bioingénieur		Access with additional training	
Bachelier en sciences biomédicales		Direct access	Le choix des cours de 1ère année de master pourrait être adapté en fonction de la formation antérieure.
<b>Bachelors of the Dutch speaking Community of Belgium</b>			
Bachelor in biologie		Access with additional training	
Bachelors in de biochemie en de biotechnologie Bachelor in biologie		Access with additional training	
<b>Foreign Bachelors</b>			
		Direct access	

## Non university Bachelors

Diploma	Access	Remarks
> Find out more about <a href="#">links</a> to the university		
> BA en sciences agronomiques - type long > BA en sciences industrielles - type long	Accès au master moyennant réussite d'une année préparatoire de max. 60 crédits	Type long
> BA - technologue de laboratoire médical > BA en agronomie > BA en chimie (toutes finalités) > BA en chimie finalité biochimie	Accès au master moyennant réussite d'une année préparatoire de max. 60 crédits	Type court

## Holders of a 2nd cycle University degree

Diploma	Special Requirements	Access	Remarks
<b>"Licenciés"</b>			
		Direct access	
<b>Masters</b>			
		Direct access	

## Holders of a non-University 2nd cycle degree

Diploma	Access	Remarks
> Find out more about <a href="#">links</a> to the university		
> MA en sciences agronomiques > MA en sciences de l'ingénieur industriel en agronomie > MA en sciences de l'ingénieur industriel, finalités chimie et biochimie > MA en sciences industrielles, finalités chimie et biochimie	Accès direct au master moyennant ajout éventuel de 15 crédits max	Type long

## Adults taking up their university training

> See the website [Valorisation des acquis de l'expérience](#)

It is possible to gain admission to all masters courses via the validation of professional experience procedure.

## Personalized access

Reminder : all Masters (apart from Advanced Masters) are also accessible on file.

## Admission and Enrolment Procedures for general registration

Specific procedures :

Le dossier de demande d'admission est à adresser au Secrétariat du Département de biologie - Carnoy - Place Croix du Sud 4 à 1348 Louvain-la-Neuve

## Teaching method

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The teaching strategy takes its inspiration from the idea of "taking responsibility for one's own learning" and offers a wide range of learning situations. Students must take three major decisions: the choice of an option course, a focus and final additional training.

Approximately thirty credits are reserved for activities which can be freely chosen from the overall **Biochemistry and Molecular and Cell Biology** programme or from related Masters.

Teaching is organized in small groups, most frequently in "tutorial" style and learning is for the most part centred on individual work (e.g. reading, consultation of databases and bibliographic references, presentation of seminars and research work). Before making a final choice for the subject of the dissertation, students do a "rotation" in four laboratories relating to each of the four available option courses. Work on the dissertation usually starts in the second semester of the first year and continues until the first semester of the second year of the Master. The training is completed by an intensive placement in a professional environment lasting several months, preferably abroad.

The five programmes organized in the French Community of Belgium share a portfolio of approximately fifteen inter-university workshops which can be taken from the first semester of the second year. Each workshop consists of a week of immersion in an intellectual issue in an area of advanced research, spent in a host department which specializes in the area. UCL provides three workshops; our students must attend at least two of them.

Students doing the teaching focus may do advanced teaching in mathematics, physical sciences or geography.

## Evaluation

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*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".*

Students will mainly be assessed on the basis of individual work (e.g. reading, consultation of databases and bibliographic references, writing monographs and reports, presentation of seminars, dissertation and work placement). Where necessary, students will also be assessed on how much they have learned from lectures. As far as possible, there will be continuous assessment, including regular 'open book examinations'. Certain activities will not be given a precise mark but will be officially certified. Assessment of the dissertation is in two stages : a 'progress report' at the end of the first year of the Master and the final presentation.

## Mobility and/or Internationalisation outlook

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For the research and professional focuses, students are invited to spend time in a foreign country, preferably during the second semester of the second year cadre to do a work placement and/or (possibly) during the first semester of the second year to do the second part of their dissertation whilst also taking their option course and their focus-related training

Advanced courses are given by many visiting lecturers from different foreign institutions and some Belgian ones. These are mostly in English.

## Possible trainings at the end of the programme

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Whatever focuses and option courses are chosen, the Master in **Biochemistry and Molecular and Cell Biology** gives direct access to a doctorate in science.

## Contacts

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### Curriculum Management

Entite de la structure BIOL

Acronyme	<b>BIOL</b>
Dénomination	Ecole de biologie
Adresse	Croix du sud, 4-5 bte L7.07.05 1348 Louvain-la-Neuve Tél 010 47 34 89 - Fax 010 47 35 15

Site web <https://www.uclouvain.be/biol>  
Secteur Secteur des sciences et technologies (SST)  
Faculté Faculté des sciences (SC)  
Commission de programme Ecole de biologie (BIOL)

## Jury

Président : **Yves-Jacques Schneider**

Secrétaire : **Henri Batoko**

## Usefull Contacts

Secrétaire de l'Ecole de biologie : **Guns Guns**

