

**BBMC2M**

2016 - 2017

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**Main study domain : **Sciences**Organized by: **Faculté des sciences (SC)**Programme code: **bbmc2m** - Francophone Certification Framework: 7**Table of contents**

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## 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.

*For a programme-type, and regardless of the focus, options/or elective courses selected, this master will carry a minimum of 120 credits divided over two annual units, corresponding to 60 credits each.*

[> Tronc commun](#) [ en-prog-2016-bbmc2m-lbbmc200t.html ]

Focuses

[> Research focus](#) [ en-prog-2016-bbmc2m-lbbmc200a ]

[> Teaching focus](#) [ en-prog-2016-bbmc2m-lbbmc200d ]

[> Professional focus:Biotechnology](#) [ en-prog-2016-bbmc2m-lbbmc200s ]

[> Cours au choix](#) [ en-prog-2016-bbmc2m-lbbmc300o.html ]

## BBMC2M Detailed programme

### Programme by subject

#### CORE COURSES [54.0]

● Mandatory

△ Courses not taught during 2016-2017

⊕ Periodic courses taught during 2016-2017

⊗ Optional

⊖ Periodic courses not taught during 2016-2017

■ Activity with requisites

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	Bioinformatics : 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 Rene.Rezsohazy	30h	3 Credits	1q	x	

Year

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

### o 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	Francois.Chaumont Charles.Hachez Pierre.Morsomme	18.5h +22.5h	3 Credits	1q	x	
⊗ LBRMC2101	Genetic engineering	Francois.Chaumont (coord.) Charles.Hachez	30h+7.5h	3 Credits	1q	x	
⊗ LBRMC2202	Cell culture technology	Charles.Hachez Pascal.Hols Yves-Jacques.Schneider (coord.)	30h	3 Credits	1q	x	

### o Sciences humaines (2 credits)

un cours parmi les trois suivants :

⊗ LSC2001	Introduction to contemporary philosophy	Delia.Popa	30h	2 Credits	2q	x	
⊗ LSC2220	Philosophy of science	Alexandre.Guay	30h	2 Credits	2q	x	
⊗ LFILO2003E	Ethics in the Sciences and technics (sem)	Herve.Jeanmart NOBODY Rene.Rezsohazy	15h+15h	2 Credits	2q	x	x

## LIST OF FOCUSES

Une finalité à choisir parmi les trois suivantes :

- > [Research focus](#) [ en-prog-2016-bbmc2m-lbbmc200a ]
- > [Teaching focus](#) [ en-prog-2016-bbmc2m-lbbmc200d ]
- > [Professional focus:Biotechnology](#) [ en-prog-2016-bbmc2m-lbbmc200s ]

## RESEARCH FOCUS [30.0]

- Mandatory
- △ Courses not taught during 2016-2017
- ⊕ Periodic courses taught during 2016-2017
- ⊗ Optional
- ⊖ Periodic courses not taught during 2016-2017
- Activity with requisites

Click on the course title to see detailed informations (objectives, methods, evaluation...)

						Year	
						1	2
● LBBMC2205	<a href="#">Stage de recherche - 1ère partie</a>	<a href="#">Bernard.Hallet</a>	25h+40h	20 Credits	2q		x
● LBBMC2203	<a href="#">Ateliers interuniversitaires</a>	<a href="#">Patrice.Soumillion (coord.)</a>	40h+40h	5 Credits			x

### o Activité(s) au choix (5 credits)

à choisir dans la liste des activités au choix.

## TEACHING FOCUS [30.0]

**IMPORTANT NOTE: In accordance with article 138 para. 4 of the decree of 7 November 2013 concerning higher education and the academic organisation of studies, teaching practice placements will not be assessed in the September session. Students are required to make every effort to successfully complete the teaching practice in the June session, subject to having to retake the year.**

- Mandatory
- △ Courses not taught during 2016-2017
- ⊕ Periodic courses taught during 2016-2017
- ⊗ Optional
- ⊖ Periodic courses not taught during 2016-2017
- Activity with requisites

Click on the course title to see detailed informations (objectives, methods, evaluation...)

Year

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### o Module concevoir, planifier et évaluer des pratiques d'enseignement et d'apprentissage

#### o Didactique générale et formation à l'interdisciplinarité (3 credits)

Une des activités suivantes:

⊗ LAGRE2220A	<a href="#">Didactique générale et formation à l'interdisciplinarité</a>	<a href="#">Myriam.Dekesel (coord.)</a> <a href="#">Marc.Romainville</a>	37.5h	3 Credits	1 + 2q	x	
⊗ LAGRE2220S	<a href="#">Didactique générale et formation à l'interdisciplinarité</a>	<a href="#">Myriam.Dekesel (coord.)</a> <a href="#">Marc.Romainville</a>	37.5h	3 Credits	2q		x
● LSCI2320	<a href="#">Didactique et épistémologie des sciences</a>	<a href="#">Myriam.Dekesel (coord.)</a> <a href="#">Jim.Plumat</a> <a href="#">Valerie.Wathelet</a>	60h	6 Credits	1q	x	x
● LBIO2340	<a href="#">Didactique et épistémologie de la biologie</a>	<a href="#">Myriam.Dekesel</a>	15h+5h	2 Credits	2q	x	x
● LBIO2310	<a href="#">Stages d'enseignement en biologie (en ce compris le séminaire d'intégration des stages)</a>	<a href="#">Myriam.Dekesel</a>	15h+40h	7 Credits	2q	x	x

Year

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o Une UE parmi les quatre suivantes (2 credits)

⊗ LCHM2340	Didactique et épistémologie de la chimie	Valerie.Wathelet	15h+5h	2 Credits	2q	x	x
⊗ LPHYS2340	Didactique et épistémologie de la physique	Jim.Plumat	15h+5h	2 Credits	2q	x	x
⊗ LGEO2320A	Didactique et épistémologie de la géographie (en ce compris le stage d'écoute)		37.5h +10h	4 Credits	1 + 2q	x	x
⊗ LMAT2320A	Didactique et épistémologie de la mathématique (en ce compris le stage d'écoute)		37.5h +10h	4 Credits	1q	x	x

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

o LAGRE2400	See specifications in french	Michel.Dupuis Anne.Ghysselinckx	20h	2 Credits	2q	x	x
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o Séminaire d'observation et d'analyse de l'institution scolaire et de son contexte (en ce compris le stage d'observation) (4 credits)

Choisir 1 des activités suivantes. Le cours et le séminaire doivent être suivis au même quadrimestre.

⊗ LAGRE2120P	Observation et analyse de l'institution scolaire et de son contexte (en ce compris le stage d'observation)	Branka.Cattonar Simon.Enthoven (coord.)	22.5h +25h	4 Credits	1q	x	
⊗ LAGRE2120Q	Observation et analyse de l'institution scolaire et de son contexte (en ce compris le stage d'observation)	Vincent.Dupriez Simon.Enthoven (coord.)	22.5h +25h	4 Credits	2q	x	

o Module animer un groupe et travailler en équipe

o Comprendre l'adolescent en situation scolaire, gérer la relation interpersonnelle et animer le groupe classe (4 credits)

Choisir 1 des activités suivantes. Le cours et le séminaire doivent être suivis au même quadrimestre.

⊗ LAGRE2020P	Comprendre l'adolescent en situation scolaire, Gérer la relation interpersonnelle et animer le groupe classe.	James.Day Pascale.Steyns (coord.)	22.5h +22.5h	4 Credits	1q	x	
⊗ LAGRE2020Q	Comprendre l'adolescent en situation scolaire, Gérer la relation interpersonnelle et animer le groupe classe.	James.Day Pascale.Steyns (coord.)	22.5h +22.5h	4 Credits	2q	x	

**PROFESSIONAL FOCUS: BIOTECHNOLOGY [30.0]**

● Mandatory

△ Courses not taught during 2016-2017

⊕ Periodic courses taught during 2016-2017

⊗ Optional

⊖ Periodic courses not taught during 2016-2017

■ Activity with requisites

Click on the course title to see detailed informations (objectives, methods, evaluation...)

Year

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● LBBMC2215	Stage en entreprise	Rene.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	Iwona.Cybulska	30h +22.5h	5 Credits	2q		x
⊗ LBRNA2202	Nano-biotechnologies	Yves.Dufrene	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			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		82.5h	10 Credits	1 + 2q		x
⊗ WFARM1303	Clinical Chemistry	Jean-Philippe.Defour Catherine.Fillee Damien.Gruson Vincent.Haufroid (coord.) Teresinha.Leal	20h	2 Credits	2q		x
⊗ WBICL2107	Principe et méthodologie des dosages immunologiques	Diane.Maisin	15h+40h	3 Credits	2q		x
⊗ WESP2123	Principes des essais cliniques	Laurence.Habimana Annie.Robert (coord.) Francoise.Smets	20h+10h	4 Credits	1q		x
⊗ WSBIM2230	Biochimie des erreurs innées du métabolisme	Marie-Cecile.Nassogne	30h	3 Credits	1q		x
⊗ LBRAL2201C	Food Technology (procédés biotechnologies)			1 Credits	1q	x	x
⊗ LBRAL2201D	Food Technology: transformations des produits végétaux et animaux			2 Credits	1q	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.Devisscher Werner.Derijcke Benedicte.Inghels	30h	3 Credits	1q	x	x
⊗ LFSA2230	Introduction to management and to business economics	Benoit.Gailly Vincent.Reuter (compensates Benoît Gailly)	30h+15h	4 Credits	2q	x	x

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							1	2
⊗ LFSA3010	Principles of Scientific Communication	Yves.Deville Yves.Deville (compensates) Xavier.Gonze Xavier.Gonze Michel.Verleysen Michel.Verleysen (compensates) Xavier.Gonze	30h+30h	3 Credits	2q	x	x	
⊗ LSC3001	Recherche, innovation et propriété intellectuelle : applications aux secteurs de la chimie et aux sciences de la vie	Francis.Leyder	30h	3 Credits	1q	x	x	
⊗ LDROP2101	Management of Intellectual Property Rights	Dominique.Kaesmacher Alain.Strowel Francois.Wery	30h	5 Credits	2q	x	x	
⊗ LDROP2102	Droits intellectuels et nouvelles technologies	Alain.Strowel	30h	5 Credits	2q	x	x	
⊗ LDROP2103	Law on intellectual property contr	Vincent.Cassiers Fernand.Devisscher	30h	5 Credits	2q	x	x	
⊗ LBBMC2213	Atelier de formation à la recherche en entreprise			5 Credits		x	x	
⊗ LBRAI2208	Firms and Markets : Strategic Analysis	Frederic.Gaspart	30h	3 Credits	1q	x	x	



## Cours au choix [36.0]

○ Mandatory

△ Courses not taught during 2016-2017

⊕ Periodic courses taught during 2016-2017

⊗ Optional

⊖ Periodic courses not taught during 2016-2017

■ Activity with requisites

Click on the course title to see detailed informations (objectives, methods, evaluation...)

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

## ○ 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	

## ○ 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	

## ○ Module d'approfondissement en biologie végétale

⊗ LBBMC2108	Génétique moléculaire et génomique végétale	Henri.Batoko Francois.Chaumont Xavier.Draye	36h+18h	5 Credits	2q	x	
⊗ LBBMC2109	Physiologie cellulaire végétale	Henri.Batoko Francois.Chaumont Charles.Hachez Pierre.Morsomme	36h+18h	5 Credits	2q	x	

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

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

## ○ 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	Olivier.Giacomin Paul.Vanzeveren	30h+15h	5 Credits	1q	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)	Regis.Coeurderoy Yves.Decordt Marine.Falize (compensates Régis.Coeurderoy)	30h+15h	5 Credits	1q	x	x
○ LCPME2003	Business plan of the creation of a company (in French)	Frank.Janssen	30h+15h	5 Credits	2q	x	x

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○ LCPME2004	Advanced seminar on Entrepreneurship (in French)	Roxane.DeHoe (compensates Frank Janssen) Frank.Janssen	30h+15h	5 Credits	2q	x	x

### ⊗ Autres cours au choix

⊗ LBBMC2206	Stage - 2ème partie	Bernard.Hallet Rene.Rezsohazy	10h+10h	10 Credits	2q	x	x
⊗ LBBMC2204A	Pharmacologie cellulaire et moléculaire - concepts de base	Patrick.Dumont Bernard.Knoops Yves-Jacques.Schneider	30h	3 Credits	1q	x	x
⊗ LBBMC2204B	Pharmacologie cellulaire et moléculaire - application à une pathologie : de la biologie moléculaire au traitement.		24h	2 Credits	2q	x	x
⊗ LBRTE2201	Human and environmental toxicology	Alfred.Bernard Cathy.Debier (coord.)	45h+7.5h	5 Credits	1q	x	x
⊗ LSTAT2360	Seminar in data management: basic	Catherine.Legrand	7.5h+10h	6 Credits	1 ou 2q	x	x

### ⊗ Un des autre cours de techniques

⊗ LBIRC2101A	Analyse biochimique et notions de génie génétique: analyse biochimique	Francois.Chaumont Charles.Hachez Pierre.Morsomme	18.5h +22.5h	3 Credits	1q	x	x
⊗ LBRMC2101	Genetic engineering	Francois.Chaumont (coord.) Charles.Hachez	30h+7.5h	3 Credits	1q	x	x
⊗ LBRMC2202	Cell culture technology	Charles.Hachez Pascal.Hols Yves-Jacques.Schneider (coord.)	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.Soumillion	0h+60h	5 Credits	2q	x	x
⊗ LBIO1233	Animal physiology and morphology	Patrick.Dumont (coord.) Francoise.Gofflot Rene.Rezsohazy	30h+30h	5 Credits	2q	x	x
⊗ LBIO1342	Plant morphogenesis	Francois.Chaumont	20h+15h	3 Credits	2q	x	x
⊗ LBIO1341	Plant physiology	Xavier.Draye Stanley.Lutts	45h+15h	5 Credits	2q	x	x
⊗ LBIO1332	Animal embryology	Rene.Rezsohazy	25h+15h	3 Credits	1q	x	x
⊗ LBIO1336	Animal Biochemistry, physiology and histology	Patrick.Dumont Francoise.Gofflot	30h+30h	5 Credits	2q	x	x
⊗ LCHM1211	General Chemistry 2	Michel.Devillers (coord.) Geoffroy.Hautier	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-Francois.Gohy	22.5h	2 Credits	2q	x	x
⊗ LCHM1251B	Éléments de cristallographie et de spectroscopie moléculaire	Yaroslav.Filinchuk	30h+10h	4 Credits	1q	x	x
⊗ LCHM1251C	Éléments de cristallographie et spectroscopie moléculaire	Sophie.Hermans	30h+20h	4 Credits	2q	x	x

Year

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### ⊗ Cours au choix complémentaires à la finalité didactique

⊗ LSCI2330	Séminaire de recherche en didactique des sciences	Myriam.Dekesel Jim.Plumat (coord.) Valerie.Wathelet	15h+30h	5 Credits	2q	x	x
⊗ LAGRE2310	Micro-teaching exercises	Pascalia.Papadimitriou Dominique.Vandercammen	15h	2 Credits	1q	x	x
⊗ LAGRE2221	Learning and teaching with new technologies	Marcel.Lebrun	15h+15h	2 Credits	1q	x	x
⊗ LGEO2330	Séminaire de didactique de la géographie	Marie- Laurence.Dekeersmaecker	0h+30h	5 Credits		x	x
⊗ LMAT2330	Seminar on the teaching of mathematics	Christiane.Hauchart Enrico.Vitale	15h+30h	4 Credits	1 + 2q	x	x

### ⊗ Activités du master en chimie

### ⊗ Cours facultatif : Ingénieurs Sud

Les 5 crédits de cours ne sont pas comptabilisés dans les 120 crédits requis.

⊗ LSST1001	IngénieursSud	Jean-Pierre.Raskin	15h+45h	5 Credits	2q	x	x
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## Course prerequisites

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A document entitled [en-prerequis-2016-bbmc2m.pdf](#) specifies the activities (course units - CU) with one or more pre-requisite(s) within the study programme, that is the CU whose learning outcomes must have been certified and for which the credits must have been granted by the jury before the student is authorised to sign up for that activity.

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

As the prerequisites are a requirement of enrolment, there are none within a year of a course.

The prerequisites are defined for the CUs for different years and therefore influence the order in which the student can enrol in the programme's CUs.

In addition, when the panel validates a student's individual programme at the beginning of the year, it ensures the consistency of the individual programme:

- It can change a prerequisite into a corequisite within a single year (to allow studies to be continued with an adequate annual load);
- It can require the student to combine enrolment in two separate CUs it considers necessary for educational purposes.

For more information, please consult [regulation of studies and exams](#).

## The programme's courses and learning outcomes

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For each UCL training programme, a [reference framework of learning outcomes](#) specifies the competences expected of every graduate on completion of the programme. You can see the contribution of each teaching unit to the programme's reference framework of learning outcomes in the document "In which teaching units are the competences and learning outcomes in the programme's reference framework developed and mastered by the student?"

The document is available by clicking [this link](#) after being authenticated with UCL account.

## 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 ajout de maximum 60 crédits d'enseignements supplémentaires obligatoires au programme. Voir 'Module complémentaire'	Type long
> BA - technologue de laboratoire médical > BA en agronomie > BA en chimie (toutes finalités) > BA en chimie finalité biochimie	Accès au master moyennant ajout de maximum 60 crédits d'enseignements supplémentaires obligatoires au programme. Voir 'Module complémentaire'	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

## Supplementary classes

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*To enrol for this Masters, the student must have a good command of certain subjects. If this is not the case, they must add preparatory modules to their Master's programme.*

● Mandatory

△ Courses not taught during 2016-2017

⊕ Periodic courses taught during 2016-2017

⊗ Optional

⊖ Periodic courses not taught during 2016-2017

■ Activity with requisites

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Click on the course title to see detailed informations (objectives, methods, evaluation...)

●	Supplementary classes			Credits	
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## Règles professionnelles particulières

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### 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 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	<a href="http://www.uclouvain.be/biol">http://www.uclouvain.be/biol</a>
Secteur	Secteur des sciences et technologies (SST)
Faculté	Faculté des sciences (SC)
Commission de programme	Ecole de biologie (BIOL)

## Jury

Président : [Bernard Knoops](#)

Secrétaire :

## Usefull Contacts

Gestionnaire de l'admission et de l'inscription : [Viviane Libois](#)

Secrétaire de l'Ecole de biologie : [Véronique Guns](#)

