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## Introduction

### Introduction

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## Teaching profile

### Learning outcomes

To provide students with training in a different discipline to that followed as their baccalaureate major.

### Detailed programme

#### PROGRAMME BY SUBJECT

- Mandatory  
 Courses not taught during 2015-2016  
 Periodic courses taught during 2015-2016
- Optional  
 Periodic courses not taught during 2015-2016  
 Activity with requisites

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

*L'étudiant choisit soit l'approfondissement "de la molécule à l'organisme" soit l'approfondissement "de l'organisme à l'écosystème"*

Year

**2 3**

#### ⌘ "de la molécule à l'organisme" (30 credits)

##### ○ Cours de 2e année (10 credits)

<input type="radio"/> LBIO1216	<a href="#">Stage de biologie marine</a>	Jérôme Mallefet	0h+40h	2 Credits	2q	X	
<input type="radio"/> LBIO1233	<a href="#">Animal physiology and morphology</a>	Patrick Dumont (coord.), Françoise Gofflot, René Rezsóhazy	30h+30h	5 Credits	2q	X	
<input type="radio"/> LBIO1281	<a href="#">Project</a>	Françoise Gofflot, Pascal Hols, André Lejeune (coord.), Jean-François Rees, Hans Van Dyck	10h+35h	3 Credits	1 + 2q	X	

##### ○ Cours de 3e année (20 credits)

<input type="radio"/> LBIO1322	<a href="#">Integrated tutorials in biochemistry and molecular genetics</a>	Bernard Hallet, Patrice Soumillion	0h+60h	5 Credits	2q	X	
<input type="radio"/> LBIO1336	<a href="#">Animal Biochemistry, physiology and histology</a>	Patrick Dumont, Françoise Gofflot	30h+30h	5 Credits	2q	X	
<input type="radio"/> LBRAL2102A	<a href="#">Nutritional biochemistry and food needs : partim</a>	Yvan Larondelle, Yves-Jacques Schneider	18h	2 Credits	1q	X	
<input type="radio"/> LBIO1338	<a href="#">Travaux pratiques intégrés de physiologie, histologie et biochimie animales</a>	Bernard Knoops, Jean-François Rees (coord.), Yves-Jacques Schneider	0h+22.5h	2 Credits	2q	X	

##### ○ Cours de biologie du développement (3 credits)

*L'étudiant choisit 3 crédits dans la liste ci-dessous*

<input checked="" type="radio"/> LBIO1332	<a href="#">Animal embryology</a>	René Rezsóhazy	25h+15h	3 Credits	1q	X	
<input checked="" type="radio"/> LBIO1342	<a href="#">Plant morphogenesis</a>	François Chaumont	20h+15h	3 Credits	2q	X	
<input checked="" type="radio"/> LBIO1343	<a href="#">Développement et morphogenèse végétales : contrôle génétique de la morphogenèse</a>	François Chaumont	25h+15h	3 Credits	2q	X	

##### ○ Cours au choix (3 credits)

*L'étudiant complète son programme par 3 crédits qu'il choisit dans la liste non exhaustive ci-dessous. Pour les cours choisis en dehors des programmes de cours proposés par les Facultés SC et AGRO, la commission de programme du baccalauréat en sciences biologiques se réserve le droit de valider ou non ces choix sur base de la justification circonstanciée que l'étudiant fournira.*

<input checked="" type="radio"/> LBIO1332	<a href="#">Animal embryology</a>	René Rezsóhazy	25h+15h	3 Credits	1q	X	
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							Year	
							2	3
✘ LBIO1334	Comparative animal physiology	Patrick Dumont, Françoise Gofflot, Jérôme Mallefet	35h+15h	4 Credits	2q		x	
✘ LBIO1335	Immunology	Jean-Paul Dehoux	25h+15h	3 Credits	1q		x	
✘ LBIO1342	Plant morphogenesis	François Chaumont	20h+15h	3 Credits	2q		x	
✘ LBIO1343	Développement et morphogenèse végétales : contrôle génétique de la morphogenèse	François Chaumont	25h+15h	3 Credits	2q		x	

### ✘ "de l'organisme à l'écosystème" (30 credits)

#### o Cours de 2e année (10 credits)

o LBIO1216	Stage de biologie marine	Jérôme Mallefet	0h+40h	2 Credits	2q	x	
o LBIO1214	Systematics and evolution : Principles, methods and diversity	Thierry Hance, Renate Wesselingh	25h+25h	3 Credits	2q	x	
o LBIO1215	Marine Biology	Jérôme Mallefet	25h	2 Credits	2q	x	
o LBIO1281	Project	Françoise Gofflot, Pascal Hols, André Lejeune (coord.), Jean-François Rees, Hans Van Dyck	10h+35h	3 Credits	1 + 2q	x	

#### o Cours de 3e année (20 credits)

o LBIO1351	Ecology of individuals and populations	Thierry Hance, Marie-Jeanne Holveck (compensates Caroline Nieberding), Anne-Laure Jacquemart, Caroline Nieberding	50h	4 Credits	1q		x
o LGEO1332B	Biogéographie	Renate Wesselingh	30h	2 Credits	2q		x
o LBRAI2101B	Génétique quantitative et des populations: partie populations	Philippe Baret, Xavier Draye	25h	2 Credits	1q		x

#### o Travaux pratiques intégrés d'écologie et de biogéographie

L'étudiant choisit au moins 4 crédits

✘ LBIO1352A	Practical work in ecology and biogeography	Renate Wesselingh	0h+50h	4 Credits	1 + 2q		x
✘ LBIO1352B	Practical work in ecology and biogeography	Renate Wesselingh	0h+50h	4 Credits	1 + 2q		x

#### o Cours au choix

L'étudiant complète son programme par 4 ou 8 crédits qu'il choisit dans la liste non exhaustive ci-dessous. Cependant, pour les cours choisis en dehors des programmes de cours proposés par les Facultés SC et AGRO, la commission de programme du baccalauréat en sciences biologiques se réserve le droit de valider ou non ces choix sur base de la justification circonstanciée que l'étudiant fournira.

✘ LBIO1233	Animal physiology and morphology	Patrick Dumont (coord.), Françoise Gofflot, René Rezsóhazy	30h+30h	5 Credits	2q		x
✘ LBIO1332	Animal embryology	René Rezsóhazy	25h+15h	3 Credits	1q		x
✘ LBIO1334	Comparative animal physiology	Patrick Dumont, Françoise Gofflot, Jérôme Mallefet	35h+15h	4 Credits	2q		x
✘ LBIO1342	Plant morphogenesis	François Chaumont	20h+15h	3 Credits	2q		x
✘ LBIO1343	Développement et morphogenèse végétales : contrôle génétique de la morphogenèse	François Chaumont	25h+15h	3 Credits	2q		x
✘ LBIR1230A	Introduction à l'ingénierie de la biosphère	Philippe Baret, Pierre Defourny, Pierre Delmelle, Bruno Delvaux		3 Credits	2q		x

## ***COURSE PREREQUISITES***

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A document entitled [en-prerequis-2015-app-lbiol100p.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.

## Information

### Liste des bacheliers proposant cette mineure

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> [Bachelor in Biology](#) [en-prog-2015-biol1ba]

### Admission

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The approfondissement in biological science is open to students enrolled on the baccalaureate in biological sciences who have not already chosen the minor in chemistry in their second year.

### Contacts

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### Curriculum Managment

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

**Academic Supervisor :** [André Lejeune](#)

**Jury:**

### Usefull Contacts

Secrétaire de l'Ecole de biologie (Baccalauréat) : [Bernadette Gravy](#)

### Infos

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