

A single year

The courses of the options Applied biology and Biotechnology management will be given in Liège, those of the option Biotechnology will be given in Gembloux.

For any information, contact :

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Compulsory courses

| | | | | | |
|------------|--|----|---|---|-----------|
| STFE2000-1 | <i>Final work</i> - COLLÉGIALITÉ | - | - | - | 28 |
| BIOC2000-1 | <i>Industrial processes of purification</i> - Jacqueline DESTAIN, Philippe THONART | 13 | - | - | 2 |

Optional courses

Choose one option from the following :

Option Applied Biology (ULg)

Prerequisite BIOC0001-1 Génétique, biologie moléculaire et chimie des macromolécules
IMMU0521-1 Immunologie

Microbiology

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|------------|---|----|----|---|----------|
| MICR0711-1 | <i>Microbiology</i> | | | | 6 |
| | - <i>Part 1 : Algology and mycology</i> - Denis BAURAIN | 20 | 10 | - | |
| | - <i>Part 2 : Bacteriology</i> - Bernard JORIS | 20 | 10 | - | |
| | - <i>Part 3 : Virology</i> - Jacques PIETTE | 20 | 10 | - | |

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|------------|---|----|----|---|----------|
| CHIM0059-5 | <i>Industrial Microbiology</i> - Philippe THONART | 15 | 15 | - | 2 |
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Genetic engineering

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|------------|---|----|----|---|----------|
| GENE2000-1 | <i>Genetic engineering of bacteria</i> - Alain BRANS | 15 | - | - | 2 |
| GENE2001-1 | <i>Genetic engineering of yeast</i> - Véronique GILLIQUET | 10 | - | - | 2 |
| GENE2002-1 | <i>Genetic engineering of animal cells</i> - Franck DEQUIEDT | 15 | - | - | 2 |
| GENE2003-1 | <i>Plant genetic engineering</i> - Jacques DOMMES | 15 | - | - | 2 |
| GENE2004-1 | <i>Practical course in genetic engineering</i> - Claire REMACLE, Ingrid STRUMAN | - | 40 | - | 2 |

Pharmacology, Vaccinology and Diagnosis

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|------------|--|----|---|---|----------|
| PHAC2000-1 | <i>Molecular Pharmacology</i> - Julien HANSON | 12 | - | - | 2 |
| BIOC2001-1 | <i>Biomolecular techniques applied to diagnosis</i> - Jacques PONCIN | 16 | - | - | 2 |
| VETE0046-2 | <i>Veterinary vaccinology, immunopathology</i> - Laurent GILLET | 15 | - | - | 2 |

Choose one of the following courses :

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|------------|--|----|----|---|----------|
| DROI0174-2 | <i>Commercial law</i> - Frédéric DAERDEN, Laurent STAS DE RICHELLE | 45 | - | - | 6 |
| FINA0067-1 | <i>Finance and Accounting</i> - Wilfried NIESSEN | 60 | 25 | - | 6 |
| GEST0232-5 | <i>Marketing principles</i> - Chantal DE MOERLOOSE | 50 | - | - | 6 |

Option : Biotechnologies Management (ULg)

Prerequisite MICR0711-1 Microbiologie
IMMU0521-1 Immunologie
BIOC0001-1 Génétique, biologie moléculaire et chimie des macromolécules

Law and Economy

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|------------|--|----|----|---|----------|
| DROI0174-2 | <i>Commercial law</i> - Frédéric DAERDEN, Laurent STAS DE RICHELLE | 45 | - | - | 6 |
| FINA0067-1 | <i>Finance and Accounting</i> - Wilfried NIESSEN | 60 | 25 | - | 6 |
| GEST0232-5 | <i>Marketing principles</i> - Chantal DE MOERLOOSE | 50 | - | - | 6 |

Choose courses totalling 12 ECTS from the following :

| | | | | | |
|------------|--|----|----|---|----------|
| CHIM0059-5 | <i>Industrial Microbiology</i> - Philippe THONART | 15 | 15 | - | 2 |
| GENE2000-1 | <i>Genetic engineering of bacteria</i> - Alain BRANS | 15 | - | - | 2 |
| GENE2001-1 | <i>Genetic engineering of yeast</i> - Véronique GILLIQUET | 10 | - | - | 2 |
| GENE2002-1 | <i>Genetic engineering of animal cells</i> - Franck DEQUIEDT | 15 | - | - | 2 |
| GENE2003-1 | <i>Plant genetic engineering</i> - Jacques DOMMES | 15 | - | - | 2 |

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|------------|---|----|----|---|---|
| PHAC2000-1 | <i>Molecular Pharmacology</i> - Julien HANSON | 12 | - | - | 2 |
| GEST0832-4 | <i>Financial Markets</i> - Danielle SOUGNÉ | 40 | 15 | - | 6 |
| GEST3002-1 | <i>Human Resources</i> - Jocelyne ROBERT | 24 | - | - | 4 |
| FINA0001-1 | <i>Financial statement analysis and financing an enterprise</i> - Jacques BERWART | 45 | - | - | 5 |
| LOGI0011-1 | <i>Supply Chain Management</i> (english language) - Sabine LIMBOURG | 45 | - | - | 5 |
| GRHO0001-4 | <i>Strategic Human Resources Management</i> - François PICHAULT | 45 | - | - | 4 |
| GEST0233-1 | <i>Marketing : Concepts and Decision Making</i> (english language) - Zelal ATES | 45 | - | - | 4 |
| FINA0008-2 | <i>Global Performance Management</i> (english language) - Didier VAN CAILLIE | 30 | - | - | 4 |
| GEST0006-1 | <i>Introduction to entrepreneurship</i> - Bernard SURLEMONT | 30 | - | - | 4 |
| GENE2004-1 | <i>Practical course in genetic engineering</i> - Claire REMACLE, Ingrid STRUMAN | - | 40 | - | 2 |

Option : Biotechnology (GxABT)

Biotechnology

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|------------|--|----|----|-----|---|
| CHIB0001-1 | <i>Molecular genetics</i> - Micheline VANDENBOL | 15 | 15 | - | 3 |
| BIOI0002-1 | <i>Fermentation and extraction factories, 1st part</i> - Philippe THONART | 24 | 24 | - | 4 |
| CHIB0002-1 | <i>Molecular biotechnology</i> - JeanClaude TWIZERE | 24 | - | - | 3 |
| VEGE0006-1 | <i>In vitro culture of plan tissue</i> - Philippe LEPOIVRE - [5h SEM, 4h FT] | 10 | 5 | [+] | 2 |

Chemistry, Biology

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|------------|--|----|----|---|---|
| ANIM0003-1 | <i>Immunology and immunochemistry</i> - Daniel PORTETELLE | 12 | 12 | - | 2 |
| CHIB0003-1 | <i>Analysis and synthesis techniques of macromolecules (biochemistry and immunology)</i> - Daniel PORTETELLE | 24 | - | - | 2 |
| CHIB0004-1 | <i>Analysis techniques of natural macromolecules</i> - Magali DELEU | 24 | - | - | 2 |

Economy, management

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|------------|--|----|---|---|---|
| GEST3016-1 | <i>Management</i> - Philippe LEBAILLY | 24 | - | - | 2 |
| AGRO0017-1 | <i>Biotechnology valorisation</i> - N... | 15 | - | - | 2 |
| AGRO0018-1 | <i>Office automation</i> - N... | 15 | - | - | 2 |

Choose one module from :

Animal Biotechbology

| | | | | | |
|------------|---|----|---|---|---|
| CHIB0005-1 | <i>Molecular endocrinology</i> - Robert RENAVILLE | 15 | - | - | 2 |
| CHIB0006-1 | <i>In vitro culture techniques (animal cells)</i> - Daniel PORTETELLE | 15 | - | - | 2 |
| CHIB0007-1 | <i>Genetic modifications of animal cells</i> - Luc WILLEMS | 15 | - | - | 2 |

Plant Biotechnology

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|------------|--|----|---|---|---|
| VEGE0029-1 | <i>Genetic modifications of plant cells</i> - Patrick DU JARDIN | 15 | - | - | 2 |
| AGRO0019-1 | <i>In vitro culture techniques (plants)</i> - Philippe LEPOIVRE | 15 | - | - | 2 |
| CHIB0008-1 | <i>Molecular basis of plant hormones action</i> - Bernard WATILLON | 15 | - | - | 2 |

Industrial microbiology

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|------------|--|----|---|---|---|
| BIOT0001-1 | <i>Microbial and enzymatic technologies</i> - N... | 30 | - | - | 4 |
| BIOL2001-1 | <i>Specific traits of biochemical engineering applied to industrial biology</i> - N... | 7 | - | - | 1 |
| CHIB0009-1 | <i>Special issues of physical chemistry applied to industrial microbiology</i> - Aurore RICHEL | 8 | - | - | 1 |