

Access conditions to the Master  
([http://www.ulg.ac.be/cms/c\\_1100625/master-en-sciences-agronomiques-et-industries-du-vivant](http://www.ulg.ac.be/cms/c_1100625/master-en-sciences-agronomiques-et-industries-du-vivant))

## First Year

### Common core courses

All year round

### Compulsory courses

STAT1207-1	<i>Applied statistics</i> - JeanJacques CLAUSTRIAUX	30	30	-	5
LANG0906-2	<i>English language, part 2</i> - Estelle MAYARD	16	32	-	4

First semester

### Compulsory courses

GEST3028-2	<i>Accounting and management</i> - Thomas DOGOT, Philippe LEBAILLY	24	24	-	4
GEST3015-1	<i>Quality management</i> - Marianne SINDIC - [6h SEM]	18	-	[+]	2
AGRO0018-1	<i>Office automation</i> - JeanJacques CLAUSTRIAUX	15	-	-	2

Second semester

### Compulsory courses

MANA0001-1	<i>Human resources and industrial relations management</i> - Philippe LEPOIVRE - [8h AUTR]	-	-	[+]	2
RSTG0006-1	<i>Training</i> - COLLÉGIALITÉ	-	-	-	10

### Optional courses

[...] Choose courses from the 1st and 2nd year of the Master in Bioengineering totalling 31 ECTS, with the approval of the President of the Jury

## Second year

### Common core courses

Second semester

### Compulsory courses

DOCU0449-2	<i>Scientific literature and information literacy</i> - Bernard POCHE	4	6	-	2
RTFE0013-1	<i>Final work</i> - COLLÉGIALITÉ	-	-	-	18
[...]	Classes to be chosen from the 1st and 2nd year Masters in Bioengineering programme or from the programme of another ULg faculty for a total of 10 credits minimum, from subjects relating to the field, in agreement with the President of the Jury				

### Professional focus on biological processes for waste reprocessing

#### Basic subjects

#### Optional courses

Choose courses totalling 4 ECTS from the following :

#### All year round

GESA0003-1	<i>Automatisation of processing sites</i> - N... - Suppl : JeanLuc VASEL	9	9	-	2
GESA0004-2	<i>Environmental legislation and policy</i> - N...	12	-	-	2
CHIB0010-1	<i>Basis of physical chemistry applied to environment</i> - Magali DELEU	-	-	-	2

#### First semester

GESA0001-2	<i>Chemical and physico-chemical analysis of waters</i> - JeanPaul BARTHELEMY	8	16	-	2
GESA0005-1	<i>Fluid mecanic and hydrology</i> - N...	10	4	-	2
GESA0014-1	<i>Life cycle analysis</i> - Angélique LÉONARD	12	12	-	2

#### Second semester

GESA0002-1	<i>Measurement and analysis of pollutants and micropollutants</i> - Philippe MAESEN	18	6	-	2
ENVT2055-1	<i>Ecosystem deterioration</i> - Roger PAUL	12	-	-	2
CHIM0683-2	<i>Green chemistry</i> - Aurore RICHEL	12	-	-	2

### Physico-chemical treatments

#### Compulsory courses

##### First semester

GESA0007-1	<i>Fundamental processes of physico-chemical wastewater treatment</i> - Philippe THONART	24	-	-	2
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##### Second semester

GESA0006-1	<i>Practical aspects of physico-chemical wastewater treatment</i> - Philippe THONART	-	36	-	3
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#### Biological treatment of polluted environments

##### All year round

GESA0008-1	<i>Wastewater treatment microbiology</i> - Frank DELVIGNE	15	9	-	2
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GESA0009-1	<i>Practical aspects of biological wastewater treatments</i> - Frank DELVIGNE - [27h FT]	3	6	[+]	3
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GESA0010-1	<i>Fundamental processes of biological wastewater treatment</i> - Frank DELVIGNE	24	-	-	2
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CHIM9225-1	<i>Gas effluents processing</i> - JeanMarc ALDRIC	14	-	-	2
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##### Second semester

GESA0016-1	<i>Industrial effluent treatment</i> - Philippe THONART	12	-	-	2
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#### Collegial classes on transforming waste and energy

#### Compulsory courses

##### All year round

GESA0015-1	<i>Waste recovery : latest developments</i> - Philippe THONART - [20h SEM]	20	20	[+]	5
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#### Soil, waste and energy treatment

#### Compulsory courses

##### First semester

ENVT2053-1	<i>Waste management</i> - Luc MINNE - [3h FT]	21	-	[+]	2
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##### Second semester

GESA0013-1	<i>Soil remediation</i> - Bruno CAMPANELLA, Gilles COLINET, Jacqueline DESTAIN - [6h SEM]	30	-	[+]	3
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#### Pluridisciplinary professional focus in creative projects (ID Campus)

Notice : focus only available on file.

#### Compulsory courses

PSYC0925-1	<i>Project management techniques</i> - Thierry CHANTRAINE, JeanFrançois LEROY	24	6	-	3
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GEST3132-1	<i>Innovation and contemporary issues in Social and Economic Development</i> - Sybille MERTENS DE WILMARS, Bernard SURLEMONT	24	6	-	3
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PSYC0926-1	<i>Soft skills for project management</i> - JeanFrançois LEROY	30	-	-	3
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GEST3134-1	<i>Creative projects mission</i>				15
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- *Ideas and creativity* - COLLÉGIALITÉ

- *Feasibility study* - COLLÉGIALITÉ

- *Validation and execution* - COLLÉGIALITÉ

#### Optional courses

Choose courses totalling 7 ECTS from the following :

Notice : Depending on his project and with the approval of the person responsible for the professional focus, the student will choose courses from the following.

ACER0012-1	<i>"CWATUPE"</i> - Maxime HABRAN, Quentin MICHEL	8	-	-	2
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ARCH0353-2	<i>Sociology and urban sociology (including in-depth reading of texts)</i> - Stéphane DAWANS	-	-	-	2
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DROI0724-1	<i>Law and engineering</i> - Christine BIQUET, Jacques CLESSE, Pascale LECOCQ - Suppl : Daisy CHICHOYAN, Déborah GOL, Bernard VANBRABANT, Cécile VERCHEVAL	30	-	-	2
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DROI0796-1	<i>Civil, commercial and corporate law, contracts and responsibility</i> - Laurent STAS DE RICHELLE	30	-	-	4
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DROI0960-1	<i>Environmental Law</i> - Michel DELNOY	30	-	-	4
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DROI2110-1	<i>Intellectual property</i> - Bernard VANBRABANT	45	-	-	4
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FINA0017-1	<i>General Accountancy (night classes)</i> - Wilfried NIESSEN	30	15	-	4
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# Study programmes 2012-2013

## Gembloux Agro-Bio Tech

### Master in Agriculture and Bio-industries

GEST3055-1	<i>Introduction to Business</i> - Nathalie CRUTZEN - [30h AUTR]	-	-	[+]	2
GEST3014-2	<i>Principles of marketing</i> - Jean TONDEUR	50	-	-	4
GEST0006-1	<i>Introduction to entrepreneurship</i> - Bernard SURLEMONT - Suppl : Fabrice PIRNAY	30	-	-	2
GEST3024-1	<i>Social Enterprise and Sustainable Development</i> - Sybille MERTENS DE WILMARS	30	-	-	2
GEOG0650-2	<i>Impact studies</i> - Guénaël DEVILLET	10	20	-	2
GESA0014-1	<i>Life cycle analysis</i> - Angélique LÉONARD	12	12	-	2
PEDA0056-1	<i>Conception, management and evaluation of training strategies</i> - Daniel FAULX	45	-	-	2
PSYC1022-1	<i>Ergonomics</i> - AnneSophie NYSSSEN, Pierre SOMVILLE	30	-	-	2
PSYC1079-2	<i>Psychosocial change in the organisations</i> - JeanFrançois LEROY	30	-	-	2
PSYC0018-1	<i>Differential psychology : Intelligence</i> - Michel HANSENNE	30	-	-	2
QUAL0437-2	<i>Statistical data analysis using informatic tools</i> - N... - Suppl : Gentiane HAESBROECK	15	5	-	2
SOCI0060-1	<i>Sociology of organized action</i> - Gaëtan CERFONTAINE, Frédéric SCHOENAERS, Sophie THUNUS	45	-	-	4
SOCI0090-1	<i>Actor-network sociology</i> - François MELARD	30	-	-	2
HULG0398-1	<i>Drawing and means of expression</i> - Cécile DELFORGE	15	15	-	2
HULG0399-1	<i>Formal structures</i> - Hilke VERVAEKE	15	15	-	2
HULG0400-1	<i>Computer technique and technology</i> - MarieClaire DAUMEN	15	15	-	2
HULG0401-1	<i>Mechanics</i> - JeanMarc BEAUVE	30	-	-	2
HULG0402-1	<i>Introduction to optimization</i> - Vincent KELNER	15	15	-	2

#### Research Focus

##### Compulsory courses

###### All year round

DOCU0451-1	<i>Literature seminar</i> - N...	-	-	-	8
DOCU0452-1	<i>Quality systems and their systems of reference in terms of research</i> - Marianne SINDIC	-	-	-	2
LANG0907-2	<i>English language : scientific communication</i> - Sophie DEPOTERRE, Dany ETIENNE	-	36	-	4
DOCU0453-1	<i>Study and design of a research project</i> - N...	-	-	-	6
[...]	Classes for a total of 10 credits to be chosen from the 1st and 2nd year Masters in Bioengineering programme from subjects relating to the field, in agreement with the President of the Jury				