Study programmes 2011-2012

Gembloux Agro-Bio Tech

Master en sciences agronomiques et industrie du vivant, à finalité approfondie

First Year

Compulsory courses

STAT1207-1	*Applied statistics* - Jean-Jacques CLAUSTRIAUX	30	30	-	**5**
INFO2038-1	*Computer science and algorithmic* - Yves BROSTAUX	6	18	-	**2**
GEST3028-2	*Accounting and management* - Philippe LEBAILLY	24	24	-	**4**
GEST3015-1	*Quality management* - Marianne SINDIC - [6h SEM]	18	-	[+]	**2**
LANG0906-2	*English language, part 2* - Marie-Anne DUFFELER	16	32	-	**4**
MANA0001-1	*Human resources and industrial relations management* - Philippe LEPOIVRE - [8h AUTR]	-	-	[+]	**2**

Optional courses

Choose courses totalling 33 ECTS from the following :

RSTG0006-1	*Final work - Training* - COLLÉGIALITÉ	-	-	-	**10**
	Notice : this course must be followed by students enrolled in the specialisation on biological processing of waste.				
CHIB0010-1	*Basis of physical chemistry applied to environment* - Magali DELEU	-	-	-	**2**
	Notice : this course must be followed by students enrolled in the specialisation on biological processing of waste.				
BIAA0003-1	*Food and agro-food engineering, 1st part* - Philippe THONART	24	24	-	**4**
BIOL2019-1	*Theoretical and physical chemistry applied to structural analysis of biomolecules* - Bernard WATHELET	36	48	-	**7**
BIOL2013-3	*General microbiology, 2nd part* - Micheline VANDENBOL	16	8	-	**2**
BIOL2013-2	*General microbiology, 1st part* - Micheline VANDENBOL	16	8	-	**2**
CHIM9241-1	*Purification and concentration techniques* - Jacqueline DESTAIN	24	-	-	**2**
CHIM9242-1	*Fundamentals of quantitative analytical chemistry, part 1* - Georges LOGNAY - [6h SEM]	18	-	[+]	**2**
INGE0001-2	*Strength of materials and elasticity* - Pierre LATTEUR	36	-	-	**2**
CHIM9246-2	*Instrumental analysis (electrochemistry and spectrometry)* - Georges LOGNAY - [8h SEM]	20	44	[+]	**6**
CHIM9245-1	*Chromatographic analysis* - Georges LOGNAY - [6h SEM]	18	-	[+]	**2**
ENVT2044-1	*General ecology* - Grégory MAHY, Arnaud MONTY	28	20	-	**4**
ENVT2045-2	*Surveying* - Charles DEBOUCHE	16	3	-	**2**
HYDR0002-1	*Water flow in soils* - Aurore DEGRÉ	24	-	-	**2**
HYDR0007-3	*Fluid mechanics* - Charles DEBOUCHE	14	10	-	**2**
HYDR0006-2	*Modelling of transfers in soils, 1st part* - Aurore DEGRÉ	12	12	-	**2**
INGE0003-1	*Engine* - Charles DEBOUCHE	24	-	-	**2**
ALIM0001-1	*Food hygiene* - Daniel PORTETELLE, Marianne SINDIC	18	6	-	**2**
ENVT3010-2	*Surveying (complement)* - Charles DEBOUCHE	8	10	-	**2**
HYDR0008-1	*Hydraulic pump and network* - Charles DEBOUCHE	10	14	-	**2**
ANIM0004-2	*Microbial biochemistry and physiology* - Micheline VANDENBOL - [2h AUTR]	12	10	[+]	**2**
GERE0014-1	*Design of agro-industrial infrastructures and environmental incidences* - Joseph FLABA - [6h FT]	18	-	[+]	**2**
VEGE0001-1	*Plant protection products bases* - Bruno SCHIFFERS	24	-	-	**2**
BIOI0001-1	*Industrial microbiology* - Philippe THONART	24	-	-	**2**
HYDR0011-2	*Ecohydrology* - Aurore DEGRÉ - [12h FT]	6	-	[+]	**2**
VEGE0021-1	*Limnology* - Frédéric FRANCIS - [4h SEM]	10	10	[+]	**2**
ENVT2054-1	*Renewable energies* - [4h FT]	20	-	[+]	**2**
ECON2246-1	*Economics of developing countries* - Baudouin MICHEL - [16h SEM]	8	-	[+]	**2**
ECON2254-1	*Tropicals markets* - Baudouin MICHEL	12	12	-	**2**
DROI0967-1	*Rural law* - Gaëtan GOISSE	24	-	-	**2**
AGRO0011-2	*Pedology of tropical and subtropical environments* - Laurent BOCK - [9h FT]	15	-	[+]	**2**
CHIM0683-1	*Green chemistry* - Aurore RICHEL	-	-	-	**2**

Optional courses

[...]	Courses should be chosen from the 1st and 2nd year Masters programmes

(bioengineer, statistics specialising in biostatistics, agronomical and industrial life sciences for a total of 8 credits in relevant fields.

Second Year

Compulsory courses

DOCU0449-2	*Scientific literature and information literacy* - Bernard POCHET	4	6	-	**2**

Optional courses

Choose courses totaling 36 ECTS from the following :

Final work

RTFE0007-1	*Final work* - COLLÉGIALITÉ	-	-	-	**28**
	Notice : Final work for students enrolled at the Professional focus.				
RTFE0013-1	*Final work* - COLLÉGIALITÉ	-	-	-	**18**
	Notice : Final thesis for students enrolled in the professional focus in biological waste treatment				

These courses has to be taken by the students enrolled in the professional focus in biological waste treatment.

GESA0001-2	*Chemical and physico-chemical analysis of waters* - Jean-Paul BARTHELEMY	8	16	-	**2**
GESA0002-1	*Measurement and analysis of polluants* - Georges LOGNAY	18	6	-	**2**
GESA0003-1	*Automation of wastewater treatment plants* - - Suppl : Jean-Luc VASEL	9	9	-	**2**
GESA0004-2	*Environmental legislation and policy* - Marc CULOT	12	-	-	**2**
ENVT2055-1	*Ecosystem deterioration* - Roger PAUL	12	-	-	**2**
GESA0005-1	*Fluid mecanic and hydrology* - Dimitri XANTHOULIS	10	4	-	**2**
GESA0014-1	*Life cycle analysis* - Bruno CAMPANELLA	12	12	-	**2**
GESA0016-1	*Industrial effluent treatment* - Philippe THONART	12	-	-	**2**
CHIM9225-1	*Gas effluents processing* - Jean-Marc ALDRIC	14	-	-	**2**
[...]	Courses should be chosen from the 1st and 2nd year Masters programmes (bioengineer, statistics specialising in biostatistics, agronomical and industrial life sciences) in relevant fields for a total of 10 credits.				

Compulsory courses

DOCU0451-1	*Literature seminar* - N...	-	-	-	**8**
DOCU0452-1	*Quality systems and their systems of reference in terms of research* - Marianne SINDIC	-	-	-	**2**
LANG0907-2	*English language : scientific communication* - andréas CHAUMOND, Marie-Anne DUFFELER	-	36	-	**4**
DOCU0453-1	*Study and design of a research project* - N...	-	-	-	**6**
[...]	A 2-credit course to be chosen from the 1st and 2nd year Masters programmes (bioengineer, statistics specialising in biostatistics, agronomical and industrial life sciences) in relevant fields.				