

Access conditions to the Master (http://www.ulg.ac.be/cms/c_274707/masters-bioingenieur-4-grades)

First Year

First semester

Teaching Period One and Two

Compulsory courses

AGRO1.11 Rural economics and European and international policy.

ECON0942-1 *Rural economics and farm business management* - Philippe BURNY, Thomas DOGOT, 32 20 [+] 5
Philippe LEBAILLY - [8h FT]

GEST3019-2 *Food Policy and Strategy* - Philippe BURNY, Thomas DOGOT, Philippe LEBAILLY - [4h24 8 [+] 3
FT]

STAT1213-1 *Elements of multivariate statistical methods* - Rodolphe PALM 12 12 - 2

AGRO1.12 General crop husbandry

VEGE0023-1 *Foundations of managing and controlling bio-agressors* - Eric HAUBRUGE, 54 - [+] 5
Philippe LEPOIVRE, Bruno SCHIFFERS - Suppl : Frédéric FRANCIS - [6h FT]

VEGE0024-1 *General plant science* - Bernard BODSON, Guy MERGEAI - [6h FT] 48 6 [+] 5

AGRO1.13 Dairy production by ruminants

ANIM0014-1 *Physiology of reproduction and lactation* - Robert RENAUVILLE - [2h FT] 22 - [+] 2

ANIM0015-1 *Dairy animal production science* - Yves BECKERS, Jérôme BINDELLE, 64 - [+] 6
Nicolas GENGLER - [8h FT]

ANIM0016-1 *Milk technology* - Marianne SINDIC - [2h FT] 22 - [+] 2

Second semester

Period 3

Optional courses

GROUP A

Choose one module from :

AGRO1.31 Animal sciences

ANIM0012-1 *Animal pathology and hygiene* - Thierry VAN DEN BERG 24 - - 2

ANIM0011-3 *Animal welfare and ethics in production and experimentation* - Daniel PORTETELLE, 12 8 [+] 2
André THEWIS - [4h FT]

ANIM0005-1 *Biochemistry of the metabolisms in the domestic animals* - Robert RENAUVILLE 24 - - 2

AGRO1.32 Economics of development

ECON2246-2 *Economics of developing countries* - Baudouin MICHEL - [16h SEM] 8 - [+] 2

ECON2254-2 *Tropicals markets* - Baudouin MICHEL 12 12 - 2

ECON2253-2 *Economics of development Seminar* - Thomas DOGOT, Philippe LEBAILLY - [24h 2
SEM] - - [+] 2

AGRO1.33 Tropical agroecology

VEGE0025-1 *Tropical agroecology* 6

- *Principles of tropical agroecology* - Guy MERGEAI - [2h SEM, 4h FT] 18 - [+] 6

- *Food and industrial crops in tropical regions* - JeanPierre BAUDOIN 36 12 -

GROUP B

Choose one module from :

AGRO1.34 Meat and eggs

ANIM0017-1 *Meat and eggs* - Yves BECKERS, Jérôme BINDELLE, Nicolas GENGLER, 64 - [+] 6
Robert RENAUVILLE, André THEWIS - [8h FT]

AGRO1.35 Agricultural policy, sociology and rural legislation

SOCI2234-1 *General and rural sociology* - Daniel BODSON 24 - - 2

ECON2247-1	<i>Agricultural policy</i> - Philippe BURNY - [6h SEM]	12	6	[+]	2
DROI0967-1	<i>Rural law</i> - Gaëtan GOISSE	24	-	-	2

AGRO1.36 Physiology, plant breeding and multiplication of cultivated plants

VEGE0026-1	<i>Physiology, plant breeding and multiplication of cultivated plants</i>				6
	- <i>Physiology</i> - Pierre DELAPLACE, Patrick DU JARDIN	12	6	-	
	- <i>Plant breeding</i> - JeanPierre BAUDOIN	12	6	-	
	- <i>Diversity of plant genetic resources</i> - JeanPierre BAUDOIN - [8h FT]	8	2	[+]	
	- <i>Multiplication of cultivated plants</i> - André TOUSSAINT - [2h FT]	10	6	[+]	

Period 4

Compulsory courses

AGRO1.41 Internship

MANA0001-1	<i>Human resources and industrial relations management</i> - Philippe LEPOIVRE - [8h ATR]	-	-	[+]	2
RSTG0001-1	<i>Training</i> - Philippe LEPOIVRE	-	-	-	4

Period 5

GROUP A

Choose one module from :

AGRO1.51 Microbial biochemistry and immunology

ANIM0003-1	<i>Immunology and immunochemistry</i> - Daniel PORTETELLE	12	12	-	2
ANIM0004-3	<i>Microbial biochemistry and physiology</i> - Micheline VANDENBOL	14	10	-	2
ALIM0001-1	<i>Food hygiene</i> - Daniel PORTETELLE, Marianne SINDIC	18	6	-	2

AGRO1.52 Economic Decision Support

GBLX0057-2	<i>Mathematical methods in decision making</i> - Rodolphe PALM	12	12	-	2
GEST3022-2	<i>Operations research for economics</i> - Thomas DOGOT	16	8	-	2
STAT1218-2	<i>Statistical methods for economics</i> - Rodolphe PALM	12	12	-	2

AGRO1.53 Plant production in temperate areas

VEGE0027-1	<i>Plant production in temperate areas</i>				6
	- <i>Plant science of various species involved in large scale cultivation and animal fodder production in temperate regions</i> - Bernard BODSON	20	4	-	
	- <i>Implementing technical arrangements under real conditions</i> - Bernard BODSON - [8h FT]		16	[+]	
	- <i>Evaluating and optimising production systems</i> - Bernard BODSON - [8h FT]	10	6	[+]	

GROUP B

Choose one module from :

AGRO1.54 Bromatology and the cultivation of animal fodder

ANIM0018-1	<i>Bromatology and the cultivation of animal fodder</i> - Yves BECKERS, Jérôme BINDELLE - [8h FT]	48	16	[+]	6
------------	---	----	----	-----	---

AGRO1.55 Integrated management of self-propagating plants and bio-agressors

VEGE0028-1	<i>Integrated management of self-propagating plants and bio-agressors</i> - Bernard BODSON, Frédéric FRANCIS, Eric HAUBRUGE, Haïssam JIAKLI, Bruno SCHIFFERS - [6h FT]	48	18	[+]	6
------------	--	----	----	-----	---

Second year

First semester

Optional courses

Choose one option from the following :

"Agronomical sciences" courses programme (in GxABT)

Period 1

Choose 2 modules from 2 different groups (Group A, B or C)

GROUP A

AGRO2.11 Animal production in temperate areas

Notice : this module can be chosen if it has already been taken in the first year of master.

ANIM0006-1	<i>Animal production in temperate areas, the ruminants</i> - Yves BECKERS - [8h FT]	28	12	[+]	4
ANIM0006-2	<i>Animal production in temperate areas, simple stomach animals and poultry</i> - André THEWIS - [8h FT]	16	-	[+]	2

AGRO2.12 Crop husbandry

Notice : this module can be chosen if it has already been taken in the first year of master.

AGRO0003-3	<i>Temperate crops, 1st part</i> - Bernard BODSON - [6h AUTR]	18	-	[+]	2
AGRO0015-1	<i>Basis of agroecology</i> - Guy MERGEAI - [8h AUTR]	12	4	[+]	2
HORT0001-2	<i>Principles of horticultural science</i> - André TOUSSAINT - [3h AUTR]	21	-	[+]	2

AGRO2.13 Biology of bio-aggressors and integrated pest management

VEGE0017-1	<i>Applied phytopathology</i> - Haissam JIJAKLI	4	20	-	2
VEGE0016-2	<i>Integrated control of plant pathogens</i> - Haissam JIJAKLI - [9h SEM]	12	3	[+]	2
VEGE0018-3	<i>Special crop protection, phytopathology</i> - Haissam JIJAKLI - [10h SEM, 14h FT]	-	-	[+]	2

GROUP B

AGRO2.14 Animal and plant product industry

ALIM0009-1	<i>Dairy science</i> - Marianne SINDIC - [3h FT]	12	9	[+]	2
GEST3015-1	<i>Quality management</i> - Marianne SINDIC - [6h SEM]	18	-	[+]	2
ALIM0010-2	<i>Food, human nutrition and dietetics</i> - André THEWIS	24	-	-	2

AGRO2.15 Biodiversity

BIOD0001-3	<i>Biodiversity survey and management</i> - Arnaud MONTY - [6h SEM]	18	-	[+]	2
BIOD0006-1	<i>Ecology applied to population</i> - Grégory MAHY	14	10	-	2
VEGE0003-1	<i>Plant genetic resources</i> - JeanPierre BAUDOIN - [2h SEM, 8h FT]	14	-	[+]	2

GROUP C

AGRO2.16 Economics of development

ECON2246-1	<i>Economics of developing countries</i> - Baudouin MICHEL - [16h SEM]	8	-	[+]	2
ECON2254-1	<i>Tropicals markets</i> - Baudouin MICHEL	12	12	-	2
ECON2253-1	<i>Economics of development Seminar</i> - Thomas DOGOT, Philippe LEBAILLY - [24h SEM]	-	-	[+]	2

AGRO2.17 Horticultural field

HORT0006-2	<i>Horticultural Systematic</i> - Pierre DELAPLACE - [8h AUTR]	12	4	[+]	2
HORT0009-1	<i>Horticultural production method and equipment</i> - Hugo MAGEIN - [3h FT]	21	-	[+]	2
HORT0012-3	<i>Marketing of horticultural products</i> - André TOUSSAINT - [6h AUTR]	18	-	[+]	2

Period 2

Choose 3 modules from 3 different groups

Group 1

AGRO2.21 Economic Decision Support

GBLX0057-1	<i>Mathematical methods in decision making</i> - Rodolphe PALM	12	12	-	2
GEST3022-1	<i>Operations research for economics</i> - Thomas DOGOT	16	8	-	2
ECON2249-2	<i>Economic models</i> - Matthieu DELPIERRE	16	8	-	2

AGRO2.22 Animal nutrition

ALIM0002-1	<i>Animal nutrition and feeding</i> - Yves BECKERS - [38h AUTR]	4	6	[+]	4
CHIM9252-1	<i>Applications of analytical chemistry</i> - Georges LOGNAY	4	20	-	2

AGRO2.23 Crop husbandry and tropical agroforestry

AGRO0012-3	<i>Special tropical crop husbandry, first part</i> - JeanPierre BAUDOIN - [6h SEM]	18	-	[+]	2
AGRO0012-2	<i>Special tropical crop husbandry, second part</i> - JeanPierre BAUDOIN - [12h SEM]	12	-	[+]	2
FORE0014-1	<i>Tropical agroforestry</i> - JeanLouis DOUCET	24	-	-	2

AGRO2.24 Applied phytopharmacology

VEGE0010-1	<i>Safe and effective use of pesticides and residues control</i> - Bruno SCHIFFERS	14	10	-	2
VEGE0012-1	<i>Pesticide formulation and packaging</i> - Bruno SCHIFFERS - [3h SEM, 6h FT]	15	-	[+]	2
VEGE0013-1	<i>European regulation and ecotoxicology</i> - Thierry NUYTEN	24	-	-	2

Group 2

AGRO2.26 Biology of bio-aggressors and integrated pest management 2

VEGE0015-1	<i>Applied Entomology</i> - Eric HAUBRUGE	12	12	-	2
VEGE0018-5	<i>Special crop protection, zoology</i> - Frédéric FRANCIS	20	4	-	2
VEGE0014-2	<i>Integrated pest management</i> - Eric HAUBRUGE - Suppl : François VERHEGGEN	20	4	-	2

AGRO2.27 Market and Food Supply Analysis

ECON2252-2	<i>Marketing and consumer market research</i> - JeanPascal ROBIÉFROID	24	-	-	2
GBLX0056-1	<i>Complement of marketing and consumer market research</i> - JeanPascal ROBIÉFROID	24	-	-	2
ECON2251-3	<i>Food and agro-industrial Chain Economy</i> - Philippe LEBAILLY	24	-	-	2

AGRO2.28 Animal Biotechnology

ANIM0008-1	<i>Animal cell culture</i> - Daniel PORTETELLE - [4h FT]	12	8	[+]	2
ANIM0009-3	<i>Immunobiology</i> - Daniel PORTETELLE - [4h AUTR]	12	-	[+]	2
GENE0002-4	<i>Molecular genetics of microorganisms</i> - Micheline VANDENBOL	14	10	-	2

Group 3

AGRO2.29 Livestock farming and the environment

GERE0014-1	<i>Design of agro-industrial infrastructures and environmental incidences</i> - Joseph FLABA - [6h FT]	18	-	[+]	2
ENVT2049-2	<i>Introduction to environmental assessment</i> - Charles DEBOUCHE	12	-	-	2
ENVT0035-1	<i>Alternative breeding system</i> - Yves BECKERS - [22h AUTR]	2	-	[+]	2

AGRO2.210 Crop productions

AGRO0009-1	<i>Modelling of crop development</i> - Bernard BODSON	24	-	-	2
AGRO0010-2	<i>Plant production and agrarian systems</i> - Bernard BODSON - [12h AUTR]	30	6	[+]	4

AGRO2.211 Environmental economy and statistics applied to rural economics

STAT1213-1	<i>Elements of multivariate statistical methods</i> - Rodolphe PALM	12	12	-	2
STAT1218-1	<i>Statistical methods for economics</i> - Rodolphe PALM	12	12	-	2
ECON2248-1	<i>Environmental economy</i> - Kevin MARÉCHAL	24	-	-	2

AGRO2.212 Applied plant biotechnology

Study programmes 2012-2013

Gembloux Agro-Bio Tech

Master in Agricultural Bioengineering

GBLX0152-1	<i>Biotechnology applied to phytopathology</i> - Haissam JIJAKLI	12	6	-	2
HORT0010-1	<i>Horticulture and environmental requirements</i> - Christine MOUREAUX - [12h SEM]	12	-	[+]	2
GBLX0153-1	<i>Biotechnology applied to pest prevention</i> - Frédéric FRANCIS	-	-	-	2

Group 4

AGRO2.213 Group project

GBLX0154-1	<i>Group project</i> - COLLÉGIALITÉ	-	-	-	6
------------	-------------------------------------	---	---	---	---

Management courses programme (in HEC-ULg)

GEST3001-1	<i>People management and organisation</i> - Jocelyne ROBERT	24	24	-	4
GEST3002-1	<i>Human Resources</i> - Jocelyne ROBERT	24	-	-	2
GEST3003-1	<i>Competitive strategy in the marketplace</i> (english language) - Michael GHILISSEN	16	16	-	3
GEST3004-1	<i>Marketing (operations and management)</i> (english language) - Michael GHILISSEN	16	16	-	3
GEST3005-2	<i>Accountancy and Finance</i> - Jacques BERWART	24	24	-	4
GEST3006-1	<i>Operations and supply chain management I</i> (english language) - Yasemin ARDA	16	16	-	3
GSTG3001-1	<i>Business plan</i> - COLLÉGIALITÉ	-	30	-	4
GSTG3002-1	<i>Functional analysis of a company</i> - COLLÉGIALITÉ - [30h Internship]	-	-	[+]	4

Choose one of the following courses :

GEST3010-1	<i>Operations and supply chain management II</i> - Sabine LIMBOURG	16	16	-	3
GEST3011-2	<i>ICT for Business</i> - Alain DUBOIS	16	16	-	3
GEST3012-1	<i>Financial and actuarial modelling</i> - Louis ESCH	16	16	-	3

Second semester

Compulsory courses

Period 3

AGRO2.31 Final dissertation

RTFE0002-1	<i>Final dissertation (bioengineering)</i> - N...	-	-	-	27
LANG0907-2	<i>English language : scientific communication</i> - Sophie DEPOTERRE, Dany ETIENNE	-	36	-	3