

Two-year master program

First Year

First semester

Compulsory courses

CHIM1.10 Instrumental analysis (electrochemistry and spectrometry)

CHIM9246-2 *Electrochemistry and atomic spectrometry* - Georges LOGNAY - [8h SEM] Q1 20 44 [+] 5

Period 1

Compulsory courses

CHIM1.11 Chemical engineering, molecular genetics and nutrition

GENE0002-4 *Molecular genetics of microorganisms* - Micheline VANDENBOL - [2h AUTR] Q1 12 10 [+] 2

CHIM9247-1 *Industrial chemical processes engineering* - Aurore RICHEL Q1 12 12 - 2

ALIM0010-3 *Food, human nutrition and dietetics (english language)* - Nadia EVERAERT Q1 20 4 - 2

CHIM1.12 Quality - analysis

GEST3015-1 *Quality management* - Marianne SINDIC - [6h SEM] Q1 18 - [+] 2

CHIM9269-1 *Catalysis* - MarieLaure FAUCONNIER Q1 12 12 - 1

CHIM9270-1 *Separation techniques in analytical chemistry* - Stéphanie HEUSKIN Q1 24 - - 2

Period 2

Compulsory courses

CHIM1.22 Food sciences and technologies

BIAA0003-2 *Food and agro-food engineering, 2nd part* - François BERA Q1 12 12 - 2

ALIM0005-1 *Food Formulations Engineering* - Christophe BLECKER Q1 16 8 - 2

ALIM0007-1 *Physical chemistry of formulations* - Christophe BLECKER Q1 18 6 - 2

CHIM1.23 Chemistry of biological systems

BIOL2017-6 *Biological chemistry, 2nd part* - Aurore RICHEL Q1 36 - - 3

BIOL2024-3 *Applied molecular biology* - Luc WILLEMS Q1 - 36 - 3

Second semester

Period 3

Compulsory courses

CHIM1.31 Biological Process Engineering

BIAA0003-3 *Food and agro-food engineering, 3rd part* - François BERA Q2 2 22 - 2

BIOI0002-1 *Fermentation and extraction factories, 1st part* - Philippe JACQUES 24 24 - 4

CHIM1.32 Group project : chemistry of natural compounds

CHIM9245-1 *Chromatographic analysis* - Stéphanie HEUSKIN, Georges LOGNAY - [4h SEM] Q2 12 8 [+] 2

CHIM9254-1 *Practice chemistry of natural compounds* - Aurore RICHEL Q2 4 44 - 3

Period 4

Compulsory courses

CHIM1.41 Placement

MANA0004-1 *Portfolio (Master 1)* - Philippe LEPOIVRE TA - - - 2

RSTG0002-1 *Internship and professional relations* - Philippe LEPOIVRE, Marianne SINDIC Q2 - - - 3

Period 5

Compulsory courses

CHIM1.51 Technology of food industries

GERE0007-3 *Digital electronics* - Bernard HEINESCH Q2 16 8 - 2

ALIM0008-3 *Technology of food industries* - Sabine DANTHINE - [4h AUTR] Q2 24 20 [+] 4

CHIM1.52 Microbial biochemistry and immunology

ALIM0001-1 *Food hygiene* - Daniel PORTETELLE, Marianne SINDIC Q2 18 6 - 2

ANIM0003-1 *Immunology and immunochemistry* - Daniel PORTETELLE Q2 12 12 - 2

ANIM0004-4 *Microbial biochemistry and physiology* - Micheline VANDENBOL Q2 10 12 - 2

All year round

Period 6

Compulsory courses

CHIM1.61 English

LANG2954-1	<i>Practice of specialized English for agricultural chemistry and bioindustries : part 1</i> - Sophie DEPOTERRE, MarieLaure FAUCONNIER, Georges LOGNAY, Estelle MAYARD, Aurore RICHEL - [48h AUTR]	TA	-	-	[+]	4
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Second year

First semester

Optional courses

Choose one option from the following :

Study programme Chemistry and Bio-industries (in GxABT)

Period 1

CHIM2.11 Biological Process Engineering

BIOI0002-2	<i>Fermentation and extraction factories, 2nd part</i> - Frank DELVIGNE, Patrick FICKERS, Philippe JACQUES		24	24	-	4
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CHIM9248-1	<i>Basic principles of wastewater treatments</i> - Frank DELVIGNE	Q1	24	-	-	2
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CHIM2.12 Food Science

ALIM0006-1	<i>Food science</i> - Christophe BLECKER	Q1	30	42	-	6
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Period 2

CHIM2.21 Current questions in chemistry and phytopharmacology

CHIM9250-1	<i>Advanced analytical chemistry</i> - Georges LOGNAY - [6h SEM]	Q1	-	18	[+]	2
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CHIM0691-1	<i>Organic synthesis processes</i> - MarieLaure FAUCONNIER - [6h AUTR]	Q1	-	18	[+]	2
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CHIM0692-1	<i>Risks of using phytopharmaceutical products and biocides</i> - Bruno SCHIFFERS - [8h SEM]	Q1	16	-	[+]	2
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CHIM2.22 Complementary studies in engineering techniques

ANIM0008-1	<i>Animal cell culture</i> - Daniel PORTETELLE - [4h FT]	Q1	12	8	[+]	2
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GEST3067-2	<i>Topical seminars</i> - Marianne SINDIC - [24h AUTR]	Q1	-	-	[+]	2
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BIOI0001-1	<i>Industrial microbiology</i> - Philippe JACQUES		24	-	-	2
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CHIM2.23 Optional modules

Choose three of the following courses :

GERE0013-1	<i>Metrology</i> - MarieFrance DESTAIN	Q1	14	10	-	2
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GBLX0059-2	<i>Logistics in food industry</i> - Marianne SINDIC - [16h AUTR]	Q1	8	-	[+]	2
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GBLX0060-2	<i>Drinking water production</i> - Frank DELVIGNE	Q1	14	6	-	2
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BIOL2023-2	<i>Bio-informatics</i> - Laurence LINS	Q1	18	6	-	2
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GBLX0054-1	<i>Processes of biorefinery and white biotechnology</i> - Aurore RICHEL - [6h SEM, 8h FT]	Q1	4	6	[+]	2
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GBLX0058-1	<i>Complement of food formulations engineering and sensory analysis</i> - Christophe BLECKER - [4h SEM]	Q1	12	8	[+]	2
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ANIM0009-4	<i>Immunobiology</i> - Daniel PORTETELLE - [14h AUTR]	Q1	10	-	[+]	2
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Management courses programme (in HEC-ULg)

GEST3001-1	<i>People management and organisation</i> - Jocelyne ROBERT	Q1	24	24	-	4
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GEST3002-1	<i>Human Resources</i> - Jocelyne ROBERT	Q1	24	-	-	2
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GEST3003-1	<i>Competitive strategy in the marketplace</i> (english language) - Michael GHILISSEN	Q1	16	16	-	3
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GEST3004-1	<i>Marketing (operations and management)</i> (english language) - Michael GHILISSEN	Q1	16	16	-	3
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GEST3005-2	<i>Accountancy and Finance</i> - Jacques BERWART		24	24	-	4
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GEST3006-1	<i>Operations and supply chain management I</i> (english language) - Yasemin ARDA	Q1	16	16	-	3
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GSTG3001-1	<i>Business plan</i> - COLLÉGIALITÉ		-	30	-	4
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GSTG3002-1	<i>Functional analysis of a company</i> - COLLÉGIALITÉ - [30h Internship]		-	-	[+]	4
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Choose one of the following courses :

Study programmes 2014-2015

Gembloux Agro-Bio Tech

Master in Chemistry and Bio-industries

GEST3010-1	<i>Operations and supply chain management II</i> - Sabine LIMBOURG	Q1	16	16	-	3
GEST3011-2	<i>ICT for Business</i> - Alain DUBOIS	Q1	16	16	-	3
GEST3012-1	<i>Financial and actuarial modelling</i> - Louis ESCH	Q1	16	16	-	3
GEST3045-1	<i>Project management (english language)</i> - Etienne DALOZE		30	-	-	3

Second semester

Period 3

Compulsory courses

CHIM2.31 Dissertation

RTFE0002-1 *Final dissertation (bioengineering)* - N...

MANA0005-1 *Portfolio (MA2)* - Philippe LEPOIVRE

-	-	-	24
TA	-	-	2

All year round

Period 6

Compulsory courses

CHIM2.61 English

LANG2955-1 *Practice of specialized English for chemistry and bioindustries : part 2* -

Sophie DEPOTERRE, MarieLaure FAUCONNIER, Georges LOGNAY,

Estelle MAYARD, Bruno SCHIFFERS - [48h AUTR]

TA	-	-	[+]	4
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