

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

First Year

Period 1

Compulsory courses

Chemical engineering, molecular genetics and nutrition

GENE0002-2	<i>Molecular genetics of microorganisms</i> - Micheline VANDENBOL - [2h SEM]	14	8	[+]	2
CHIM9247-1	<i>Industrial chemical processes engineering</i> - Michel PAQUOT	12	12	-	2
ALIM0010-2	<i>Food, human nutrition and dietetics</i> - André THEWIS	24	-	-	2

Management techniques

GEST3028-2	<i>Accounting and management</i> - Philippe LEBAILLY	24	24	-	4
GEST3015-1	<i>Quality management</i> - Marianne SINDIC - [6h SEM]	18	-	[+]	2

Period 2

Compulsory courses

Instrumental analysis (electrochemistry and spectrometry)

CHIM9246-2	<i>Instrumental analysis (electrochemistry and spectrometry)</i> - Georges LOGNAY - [8h SEM]	20	44	[+]	6
------------	--	----	----	-----	---

Food sciences and technologies

BIAA0003-2	<i>Food and agro-food engineering, 2nd part</i> - François BERA	12	12	-	2
ALIM0005-1	<i>Food Formulations Engineering</i> - Christophe BLECKER	16	8	-	2
ALIM0007-2	<i>Physical chemistry of formulations</i> - Christophe BLECKER	15	9	-	2

Chemistry of biological systems

BIOL2017-4	<i>Biological chemistry, 3rd part</i> - Michel PAQUOT	12	24	-	3
BIOL2024-3	<i>Applied molecular biology</i> - Franck DEQUIEDT	24	12	-	3

Period 3

Compulsory courses

Biological Process Engineering

GERE0007-3	<i>Digital electronics, first part</i> - Bernard HEINESCH	16	8	-	2
BIOI0002-1	<i>Fermentation and extraction factories, 1st part</i> - Philippe THONART	24	24	-	4

Chemistry of natural compounds

CHIM9245-1	<i>Chromatographic analysis</i> - Georges LOGNAY - [6h SEM]	18	-	[+]	2
CHIM9254-1	<i>Practice chemistry of natural compounds</i> - Aurore RICHEL	4	44	-	4

Period 4

Compulsory courses

Placement

MANA0001-1	<i>Human resources and industrial relations management</i> - Philippe LEPOIVRE - [8h AUTR]	-	-	[+]	2
RSTG0002-1	<i>Training</i> - Marianne SINDIC	-	-	-	4

Period 5

Compulsory courses

Technology of food industries

BIAA0003-4	<i>Food and agro-food engineering, 3rd part</i> - François BERA	-	24	-	2
ALIM0008-2	<i>Technology of food industries</i> - Sabine DANTHINE	24	24	-	4

Microbial biochemistry and immunology

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

Second year

Period 1

Compulsory courses

Industrial bioprocesses engineering

BIOI0002-2	<i>Fermentation and extraction factories, 2nd part</i> - Philippe THONART	24	24	-	4
------------	---	----	----	---	---

Study programmes 2011-2012

Gembloux Agro-Bio Tech

Master in Chemistry and Bio-industries

CHIM9248-1	<i>Basic principles of wastewater treatments</i> - Frank DELVIGNE	24	-	-	2
Food science					
ALIM0006-1	<i>Food science</i> - Christophe BLECKER	30	30	-	5
GBLX0155-1	<i>Food chemistry</i> - Georges LOGNAY	-	12	-	1

Period 2

Compulsory courses

Current questions in chemistry and phytopharmacology

CHIM9250-1	<i>Advanced analytical chemistry</i> - Georges LOGNAY - [6h SEM]	-	18	[+]	2
CHIM9251-1	<i>Current questions in organic and biological chemistry</i> - Jean-Paul WATHELET - [14h SEM]	-	10	[+]	2

VEGE0001-1	<i>Plant protection products bases</i> - Bruno SCHIFFERS	24	-	-	2
------------	--	----	---	---	---

Complementary studies in engineering techniques

ANIM0008-2	<i>Animal cell culture</i> - Daniel PORTETELLE - [4h FT]	12	4	[+]	2
GEST3067-1	<i>Topical seminars</i> - Marianne SINDIC - [20h AUTR]	4	-	[+]	2
BIOI0001-1	<i>Industrial microbiology</i> - Philippe THONART	24	-	-	2

Optional courses

Choose three of the following courses :

BIOL2021-2	<i>Theory of the molecular structure-function relations</i> - Robert BRASSEUR	16	-	-	2
GERE0013-1	<i>Metrology</i> - Marie-France DESTAIN	14	10	-	2
GBLX0059-2	<i>Logistics in food industry</i> - Marianne SINDIC - [16h AUTR]	8	-	[+]	2
GBLX0004-1	<i>Applied analytical chemistry</i> - Georges LOGNAY	-	24	-	2
BIOL2023-1	<i>Bio-informatics , Methods for the analysis of genomic sequences</i> - Laurence LINS	24	-	-	2
GBLX0054-1	<i>Processes of biorefinery and white biotechnology</i> - Michel PAQUOT - [6h SEM, 8h FT]	4	6	[+]	2
GBLX0058-1	<i>Complements of food formulations engineering and sensory analysis</i> - Christophe BLECKER - [4h SEM]	12	8	[+]	2
ANIM0009-2	<i>Immunobiology</i> - Daniel PORTETELLE - [4h AUTR]	12	4	[+]	2

Period 3

Compulsory courses

Dissertation

RTFE0002-1	<i>Final dissertation</i> - N...	-	-	-	27
LANG0907-2	<i>English language : scientific communication</i> - andréas CHAUMOND, Marie-Anne DUFFELER	-	36	-	3