

# Study Programme

Academic year 2022-2023

#### **Faculty of Sciences**

Master of Science in Biochemistry and Biotechnology

## Language of instruction: English

### Programme version 5

1	General	Courses			30	credits
Nr	Course		CRDT Re	ef MT1	Session	Study
1	C003525	Structure and Function of Biological Macromolecules Savvas Savvides Department of Biochemistry, Physiology and Microbiology	4	1	A:1	120
2	C003526	Structural Bioinformatics Savvas Savvides Department of Biochemistry, Physiology and Microbiology	3	1	A:1	80
3	C000500	Bioinformatics 2 Yves Van de Peer Department of Plant Biotechnology and Bioinformatics	3	1	A:2	80
4	C003527	Biostatistics Kathleen Marchal Department of Plant Biotechnology and Bioinformatics	4	1	A:1	120
5	C003671	Biotechnology and Society Jonathan Maelfait Department of Molecular Biology	3	2	A:J	80
6	C003616	Systems Biology Bert De Rybel Department of Plant Biotechnology and Bioinformatics	4	1	A:2	120
7	C002381	Biotechnology: Biosafety, GMP and Intellectual Property Koen Vanhalst Department of Molecular Biology	3	2	A:1	80
8	C002865	Bioethics Farah Focquaert Department of Philosophy and Moral Sciences	3	2	A:1	80
9	C003106	Preparation of Master's Dissertation Peter Vandenabeele Department of Molecular Biology	3	2	B:1	80

#### 2 Majors

Subscribe to 1 major from the following list. Subject to approval by the faculty. Students with minor research choose another major than the courses of the focus.

#### 2.1 Major Bioinformatics and Systems Biology

#### A:1 C002732 Programming for Bioinformatics 6 1 160 1 Pieter De Bleser -- Department of Molecular Biology 2 C002700 Comparative Genomics 3 1 A:2 80 Klaas Vandepoele -- Department of Plant Biotechnology and Bioinformatics A:2 80 3 C002739 Unix System for Bioinformatics Environment 3 1 Lieven Sterck -- Department of Plant Biotechnology and Bioinformatics C003083 Bioinformatics Algorithms 3 A:2 80 4 1 Veerle Fack -- Department of Mathematics, Computer Science and Statistics C003084 Project Bioinformatics and Systems Biology A:J 170 5 6 1 N. N C003617 Modelling of Biological Systems 3 2 A:1 80 6 Steven Maere -- Department of Plant Biotechnology and Bioinformatics 2 7 C002703 Data Mining 3 A:1 80 Yvan Saeys -- Department of Mathematics, Computer Science and Statistics C003085 Databases for Bioinformatics 2 80 8 3 A:1 Pieter De Bleser -- Department of Molecular Biology

#### 2.2 Major Biochemistry and Structural Biology

#### 30 credits

30 credits

30 credits

Nr	Course		CRDT F	Pof MT1	Session	Study
1	C003086	Proteomics	3	1	A:1	80
		Bart Devreese Department of Biochemistry, Physiology and Microbiology				
2	C003670	Biomolecular Production Methods Nico Callewaert Department of Biochemistry, Physiology and Microbiology	4	1	A:1	110
3	C003088	Drug Design Savvas Savvides Department of Biochemistry, Physiology and Microbiology	3	1	A:2	80
4	C003615	Experimental Structural Biology Savvas Savvides Department of Biochemistry, Physiology and Microbiology	5	1	A:2	135
5	C003089	Project Biochemistry and Structural Biology Elien De Bousser Department of Biochemistry, Physiology and Microbiology	6	1	A:J	170
6	C002695	Bionanotechnology Kevin Braeckmans Department of Pharmaceutics	3	2	A:1	80
7	C002717	Metabolic Engineering Alain Goossens Department of Plant Biotechnology and Bioinformatics	3	2	A:1	80
8	C002713	Glycobiology Nico Callewaert Department of Biochemistry, Physiology and Microbiology	3	2	A:1	80
2.	3 Major I	Biomedical Biotechnology			30	credits
Nr	Course		CRDT F	Ref MT1	Session	Study
1	C002725	Molecular Pathophysiology and Experimental Therapy Charlotte Scott Department of Molecular Biology	6	1	A:1	160
2	C002738	Transgenetics of Animal Model Organisms Claude Libert Department of Molecular Biology	6	1	A:2	160
3	C002708	Experimental Molecular Cell Biology Rudi Beyaert Department of Molecular Biology	3	1	A:2	80
4	C003090	Project Biomedical Biotechnology Jens Staal Department of Molecular Biology	6	1	A:J	170
5	C002716	Human Genetics and Genetic Diseases Bruce Poppe Department of Biomolecular Medicine	3	2	A:1	80
6	C002722	Molecular Cancer Biology Geert Berx Department of Molecular Biology	3	2	A:1	80
7	C002728	Neurobiology Roosmarijn Vandenbroucke Department of Molecular Biology	3	2	A:1	80
2.	4 Major I	Microbial Biotechnology			30	credits
Nr	Course		CRDT F	Ref MT1	Session	Study
1	C002711	Food Microbiology and Safety Kurt Houf Department of Veterinary and Biosciences	3	1	A:1	80
2	C004007	Molecular Bacteria-Host Interactions Aurélien Carlier Department of Biochemistry, Physiology and Microbiology	3	1	A:2	80
3	C002715	Host-Virus Interactions Xavier Saelens Department of Biochemistry, Physiology and Microbiology	3	1	A:1	80
4	C002719	Microbial Genomics Aurélien Carlier Department of Biochemistry, Physiology and Microbiology	3	1	A:2	80
5	C002724	Molecular Microbial Ecology Marie Joossens Department of Biochemistry, Physiology and Microbiology	3	1	A:2	80
6	C003092	Project Microbial Biotechnology Charlotte Peeters Department of Biochemistry, Physiology and Microbiology	6	1	A:J	170
7	C002717	Metabolic Engineering Alain Goossens Department of Plant Biotechnology and Bioinformatics	3	2	A:1	80
8	1002403	Bioresource Recovery Processes and Engineering Erik Meers Department of Green Chemistry and Technology	3	2		75
9	C002712	Fungal Biotechnology Nico Callewaert Department of Biochemistry, Physiology and Microbiology	3	2	A:1	80
2.	5 Major I	Plant Biotechnology			30	credits
	0					

CRDT Ref MT1 Session Study

C00309	5 Plant Environment Interactions Dominique Van Der Straeten Department of Biology	3	1	A:1	80
C003097	7 Plant Biotic Interactions Sofie Goormachtig Department of Plant Biotechnology and Bioinformatics	3	1	A:2	80
C003098	8 The Plant Cell Daniël Van Damme Department of Plant Biotechnology and Bioinformatics	3	1	A:2	80
C00309	9 Plant Growth and Development Tom Beeckman Department of Plant Biotechnology and Bioinformatics	3	1	A:2	80
C003100	0 Molecular Plant Breeding Tom Ruttink Department of Plant Biotechnology and Bioinformatics	3	2	A:1	80
6 C00310 <sup>-</sup>	1 Project Plant Biotechnology Michiel Vandecasteele Department of Plant Biotechnology and Bioinformatics	6	1	A:J	170
C003102	2 The Plant Factory Frank Van Breusegem Department of Plant Biotechnology and Bioinformatics	3	2	A:1	80
C00382	5 Functional Plant Genomics Klaas Vandepoele Department of Plant Biotechnology and Bioinformatics	3	1	A:1	80
.5.1 Elect	tive Course List Plant Biotechnology			3	3 credits
Subscribe to S Nr. Course	3 credit units from the following list.	CRDT R	ef MT1	Session	Studv
	8 Advanced Plant Biotic Interactions Sofie Goormachtig Department of Plant Biotechnology and Bioinformatics	3	2	A:1	80
C003163	3 Plant Yield Hilde Nelissen Department of Plant Biotechnology and Bioinformatics	3	2	A:1	80
C002717	7 Metabolic Engineering Alain Goossens Department of Plant Biotechnology and Bioinformatics	3	2	A:1	80
		3	2	A:1	80
C004006	6 Advanced Plant Cell Biology and Signaling Bert De Rybel Department of Plant Biotechnology and Bioinformatics	Ũ			
		Ū		30	credits
B Electiv	Bert De Rybel Department of Plant Biotechnology and Bioinformatics			30	credits
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<ul> <li>B Electiv</li> <li>Subscribe to 7</li> <li>Subscribe to 2</li> <li>Course C002732</li> <li>C002732</li> <li>C002733</li> <li>C003084</li> <li>C003084</li> <li>C003084</li> <li>C003084</li> <li>C003084</li> </ul>	<ul> <li>Bert De Rybel Department of Plant Biotechnology and Bioinformatics</li> <li>re Courses</li> <li>1 minor from the following list. Subject to approval by the faculty.</li> <li>r Research</li> <li>JS</li> <li>1 focus from the following list.</li> <li>be different from the major.</li> <li>us Bioinformatics and System Biology</li> <li>21 credit units from the following list, distributed over the first standard le</li> <li>Programming for Bioinformatics Pieter De Bleser Department of Molecular Biology</li> <li>O Comparative Genomics Klaas Vandepoele Department of Plant Biotechnology and Bioinformatics</li> <li>9 Unix System for Bioinformatics Environment Lieven Sterck Department of Plant Biotechnology and Bioinformatics</li> <li>3 Bioinformatics Algorithms Veerle Fack Department of Mathematics, Computer Science and Statistics</li> <li>4 Project Bioinformatics and Systems Steven Maere Department of Plant Biotechnology and Bioinformatics</li> <li>3 Data Mining Yvan Saeys Department of Mathematics, Computer Science and Statistics</li> <li>5 Databases for Bioinformatics</li> </ul>	arning path as follow CRDT R 6 3 3 3 6 3 6 3 3 3 3 3 3	ef MT1 1 1 1 1 1 1 2 2 2	30 21 in year 1. <u>Session</u> A:1 A:2 A:2 A:2 A:2 A:1 A:1 A:1 A:1	credits credits credits Study 160 80 80 80 170 80 80 80

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1 C0030	86 Proteomics Bart Devreese Department of Biochemistry, Physiology and Microbiology	3	1	A:1	80
2 C0036	70 Biomolecular Production Methods Nico Callewaert Department of Biochemistry, Physiology and Microbiology	4	1	A:1	110
3 C0030	88 Drug Design Savvas Savvides Department of Biochemistry, Physiology and Microbiology	3	1	A:2	80
4 C0036	15 Experimental Structural Biology Savvas Savvides Department of Biochemistry, Physiology and Microbiology	5	1	A:2	135
5 C0030	89 Project Biochemistry and Structural Biology Elien De Bousser Department of Biochemistry, Physiology and Microbiology	6	1	A:J	170
6 C0026	95 Bionanotechnology Kevin Braeckmans Department of Pharmaceutics	3	2	A:1	80
7 C0027	17 Metabolic Engineering Alain Goossens Department of Plant Biotechnology and Bioinformatics	3	2	A:1	80
8 C0027	13 Glycobiology Nico Callewaert Department of Biochemistry, Physiology and Microbiology	3	2	A:1	80
3.1.1.3 Fo	ocus Biomedical Biotechnology 21			21	credits
Subscribe to	o 21 credit units from the following list, distributed over the first standar	• •			
Nr Course		CRDT R		Session	Study
1 C0027	Charlotte Scott Department of Molecular Biology	6	1	A:1	160
	38 Transgenetics of Animal Model Organisms Claude Libert Department of Molecular Biology	6	1	A:2	160
	08 Experimental Molecular Cell Biology Rudi Beyaert Department of Molecular Biology	3	1	A:2	80
	90 Project Biomedical Biotechnology Jens Staal Department of Molecular Biology	6	1	A:J	170
	16 Human Genetics and Genetic Diseases Bruce Poppe Department of Biomolecular Medicine	3	2	A:1	80
6 C0027	22 Molecular Cancer Biology Geert Berx Department of Molecular Biology	3	2	A:1	80
7 C0027	28 Neurobiology Roosmarijn Vandenbroucke Department of Molecular Biology	3	2	A:1	80
3.1.1.4 Fo	ocus Microbial Biotechnology			21	credits
Subscribe to	o 21 credit units from the following list, distributed over the first standar	rd learning path as follows CRDT Re		in year 1. Session	Study
	Food Microbiology and Safety Kurt Houf Department of Veterinary and Biosciences	3	1	A:1	80
2 C0040	07 Molecular Bacteria-Host Interactions Aurélien Carlier Department of Biochemistry, Physiology and Microbiology	3	1	A:2	80
3 C0027	15 Host-Virus Interactions Xavier Saelens Department of Biochemistry, Physiology and Microbiology	3	1	A:1	80
4 C0027	19 Microbial Genomics Aurélien Carlier Department of Biochemistry, Physiology and Microbiology	3	1	A:2	80
5 C0027	24 Molecular Microbial Ecology Marie Joossens Department of Biochemistry, Physiology and Microbiology	3	1	A:2	80
6 C0030	92 Project Microbial Biotechnology Charlotte Peeters Department of Biochemistry, Physiology and Microbiology	6	1	A:J	170
7 C0027	17 Metabolic Engineering Alain Goossens Department of Plant Biotechnology and Bioinformatics	3	2	A:1	80
8 100240	Bioresource Recovery Processes and Engineering       3       2         Erik Meers Department of Green Chemistry and Technology       3       2		2		75
	12 Fungal Biotechnology Nico Callewaert Department of Biochemistry, Physiology and Microbiology	3	2	A:1	80
9 C0027	12 Fungal Biotechnology	3	2		80 credits

1	C003095	Plant Environment Interactions Dominique Van Der Straeten Department of Biology	3	1	A:1	80
2	C003097	Plant Biotic Interactions Sofie Goormachtig Department of Plant Biotechnology and Bioinformatics	3	1	A:2	80
3	C003098	The Plant Cell Daniël Van Damme Department of Plant Biotechnology and Bioinformatics	3	1	A:2	80
4	C003099	Plant Growth and Development Tom Beeckman Department of Plant Biotechnology and Bioinformatics	3	1	A:2	80
5	C003100	Molecular Plant Breeding Tom Ruttink Department of Plant Biotechnology and Bioinformatics	3	2	A:1	80
6	C003101	Project Plant Biotechnology Michiel Vandecasteele Department of Plant Biotechnology and Bioinformatics	6	1	A:J	170
7	C003102	The Plant Factory Frank Van Breusegem Department of Plant Biotechnology and Bioinformatics	3	2	A:1	80
8	C003825	Functional Plant Genomics Klaas Vandepoele Department of Plant Biotechnology and Bioinformatics	3	1	A:1	80
3.1	1.2 Electiv	ve Courses			9	credits
		credit units from no less than 1 and no more than 2 modules from the ve Course List	e following list.			

#### Subscribe to no more than 9 credit units from the following list.

Nr Course		CRDT R	lef MT1	Session	Study
1 C00268 <sup>-</sup>	Advanced Programming in Bioinformatics Pieter De Bleser Department of Molecular Biology	3	2	A:1	80
2 C002720	) Molecular and Experimental Immunology Martin Guilliams Department of Molecular Biology	3	2	A:1	80
3 C00269	7 Biotechnological Techniques in Medical Diagnostics Dieter Deforce Department of Pharmaceutics	3	2	B:2	80
4 C003480	) Biopharmacy Stefaan De Smedt Department of Pharmaceutics	3	2	A:2	80
5 C002699	O Cellular Stress, Cell Death and Senescence Peter Vandenabeele Department of Molecular Biology	3	2	A:1	80
6 C00331	Phylogenetics Olivier De Clerck Department of Biology	4	2	A:1	120
7 C002714	Host-Parasite Interactions Dirk de Graaf Department of Biochemistry, Physiology and Microbiology	3	2	A:1	80
8 C00273	7 The Eukaryotic Cell Cycle Lieven De Veylder Department of Plant Biotechnology and Bioinformatics	3	2	A:1	80
9 C00270	S Epigenetics Wim Vanden Berghe Department of Molecular Biology	3	2	A:1	80
10 C002718	3 Metabolomics [nl] Kris Morreel Department of Plant Biotechnology and Bioinformatics	3	2	A:1	80
11 C00272	7 Molecular Simulations of Biosystems Toon Verstraelen Department of Physics and Astronomy	3	2	A:1	80
12 C003160	Advanced Experimental Macromolecular X-ray Crystallography Kenneth Verstraete Department of Biochemistry, Physiology and Microbiology	3	2	A:1	80
13 C00369	5 Applied High-throughput Analysis Tim De Meyer Department of Data Analysis and Mathematical Modelling	6	2	A:1	180
14 C004008	3 Laboratory Animal Science Katleen Hermans Department of Pathobiology, Pharmacology and Zoological Medicine	6	2	A:1	180
15 C004009	History and Philosophy of Sciences [nl] Johan Braeckman Department of Philosophy and Moral Sciences	3	2	(A:1) <sup>g</sup>	90

3.1.2.2 Elective Courses Flemish Community

Subscribe to no more than 9 credit units from the study programmes of UGent including courses from the other majors or the <u>Ghent</u> <u>University elective courses</u>, or courses from other universities of the Flemish Community, distributed over the first standard learning path as follows: no more than 9 credit units in year 2.

#### 3.2 Minor Interdisciplinary Combination

Nr Course	CRDT	Ref	MT1	Session	Study
10-05-2025 09:57					р5

30 credits

1 C003105	Project Interdisciplinary Combination	6	1	A:J	170
	Michiel Vandecasteele Department of Plant Biotechnology and Bioinformatics	0	·	7.10	
3.2.1 Electi	ive Courses UGent or other Universities			24	credits
from other universities with The minor allo	4 credit units from the study programmes of UGent (no more than 9 cre versities of the Flemish Community, or with the permission of the Study thin the ERASMUS+ programme. w a focus on another discipline. nust be included in a specific discipline, approved by the Study Program ramme.	/ Programme Committee	e, from non-Fler	nish	
3.3 Minor	Economics and Business Administration			30	credits
	0 credit units from no less than 1 and no more than 2 modules from the	e following list.			
3.3.1 Gene	aral Courses				
follows: no mo	o less than 24 and no more than 30 credit units from the following list, re than 24 credit units in year 1.		standard learni	ng path as	
Dare to Ventur Nr Course	e can be chosen if you have already subscribed to Introduction to Entr	repreneurship. CRDT Ref	f MT1	Session	Study
	Economics [nl] Bruno Merlevede Department of Economics	5		A:1	150
2 E076930	Financial and Cost Price Reporting in Companies [nl] Faculteit Economie en Bedrijfskunde, Sophie Maussen Department of Accounting, Corpu	6 orate Finance and Taxation		A:1	180
3 E076431	Introduction to Entrepreneurship Petra Andries Department of Marketing, Innovation and Organisation	3		A:1	90
4 E076460	Dare to Venture Johan Verrue Department of Marketing, Innovation and Organisation	4		A:2	120
5 F000845	Business Administration [nl] Mirjam Knockaert Department of Marketing, Innovation and Organisation	4		A:2	120
6 F000551	Business Skills Mieke Audenaert Department of Marketing, Innovation and Organisation	4		C:2	120
7 F000768	Marketing Management [nl] Maggie Geuens Department of Marketing, Innovation and Organisation	6		A:1	180
8 F000855	Organization Theory Gosia Kozusznik Department of Marketing, Innovation and Organisation	4		A:2	120
9 F000596	Business Cycles and Growth [nl] Freddy Heylen Department of Economics	6		A:1	180
10 F000446	Markets and Prices [nl] Dirk Van de gaer Department of Economics	6		A:1	180
11 F000093	Financial Markets and Institutions [nl] Rudi Vander Vennet Department of Economics	5		A:2	150
12 F000752	Environmental Economics and Policy [nl] Brent Bleys Department of Economics	4		B:2	120
13 F000859	Corporate Social Responsibility [nl]	3		A:2	90

#### 3.3.2 Elective Courses UGent

Subscribe to courses for no more than 6 credit units to be chosen from the courses of UGent.

Saskia Crucke -- Department of Marketing, Innovation and Organisation

4 Master's Dissertation 30 credits					
Nr Course	CRDT Rei	MT1	Session	Study	
1 C002310 Master's Dissertation	30	2	B:J	840	
N. N.					

#### Teaching

When a course is not taught (solely) in the programme's language of instruction, the effectively used languages are indicated in square brackets following the cours name, using the following ISO codes:

bg: Bulgarian	de: German	es: Spanish	ja: Japanese	pl: Polish	sh: Kroatian/Serbian	zh: Chinese
cs: Czech	el: Greek	fr: French	nl: Dutch	pt: Portuguese	sl: Slovene	
da: Danish	en: English	it: Italian	no: Norwegian	ru: Russian	sv: Swedish	
ua. Danish	en. English	It. Italian	no. Norwegian	Tu. Russian	SV. Swedisii	

#### Semester

Semesters are indicated by their number (1 or 2); semester 3 represents the summer period and J indicates a course spanning semesters 1 and 2. When a capital letter precedes a semester number, the course has multiple offerings. The letter indicates the offering concerned. When a semester is shown in brackets, the course in not offered this year in the specific offering. The offering frequency and first year of offering are indicated by the following codes:

a: bi-annually	c: annually, from 2023-2024	f: a
b: tri-annually	d: bi-annually, from 2023-2024	g:
·	e: tri-annually, from 2023-2024	ĥ:

annually, from 2024-2025 bi-annually, from 2024-2025 tri-annually, from 2024-2025 i: annually, from 2025-2026 j: bi-annually, from 2025-2026 k: tri-annually, from 2025-2026