

Faculty of Sciences

Exchange programme in Biochemistry and Biotechnology (master's level)

Language of instruction: English

Programme version 5

1 General Courses

The exchange programme contains a preferred list of English courses taught at UGent of the Master of Science in Biochemistry and Biotechnology.

Tips for completing your Learning Agreement:

- Please check the [departmental rules](#) for incoming students.
- A minimum number of 24 ECTS per semester (or 48 ECTS per year) should be chosen.
- 80% of the credits should be chosen from the course programme in Biochemistry and Biotechnology (i.e. minimum 19 credits on a total of 24 ECTS).
- Short or long term (up to 1 year) research projects can be chosen. Students should have an agreement with a promoter at the faculty of Sciences (UGent) prior to sending their learning agreement, and include the letter of acceptance with their application.

Nr	Course	CRDT	Ref	MT1	Session	Study
1	C003525 Structure and Function of Biological Macromolecules Savvas Savvides -- Department of Biochemistry, Physiology and Microbiology	4			A:1	120
2	C003526 Structural Bioinformatics Savvas Savvides -- Department of Biochemistry, Physiology and Microbiology	3			A:1	80
3	C000500 Bioinformatics 2 Kathleen Marchal -- Department of Information Technology	3			A:2	80
4	C003527 Biostatistics Kathleen Marchal -- Department of Information Technology	4			A:1	120
5	C003671 Biotechnology and Society Marie Joossens -- Department of Biochemistry, Physiology and Microbiology	3			A:J	80
6	C003616 Systems Biology Bert De Rybel -- Department of Plant Biotechnology and Bioinformatics	4			A:2	120
7	C002381 Biotechnology: Biosafety, GMP and Intellectual Property Koen Vanhalst -- Department of Molecular Biology	3			A:1	80
8	C002865 Bioethics Farah Focquaert -- Department of Philosophy and Moral Sciences	3			A:1	80
9	C002732 Programming for Bioinformatics Pieter De Bleser -- Department of Molecular Biology	6			A:1	160
10	C002700 Comparative Genomics Klaas Vandepoele -- Department of Plant Biotechnology and Bioinformatics	3			A:2	80
11	C004456 Linux for Bioinformatics Environment Herman De Beukelaer -- Department of Plant Biotechnology and Bioinformatics	3			A:2	80
12	C003083 Bioinformatics Algorithms Veerle Fack -- Department of Applied Mathematics and Computer Science	3			A:2	80
13	C003617 Modelling of Biological Systems Steven Maere -- Department of Plant Biotechnology and Bioinformatics	3			A:1	80
14	C002703 Data Mining Yvan Saeys -- Department of Applied Mathematics and Computer Science	3			A:1	80
15	C003085 Databases for Bioinformatics Pieter De Bleser -- Department of Molecular Biology	3			A:1	80
16	C003086 Proteomics Bart Devreese -- Department of Biochemistry, Physiology and Microbiology	3			A:1	80
17	C003670 Biomolecular Production Methods Nico Callewaert -- Department of Biochemistry, Physiology and Microbiology	4			A:1	110

18	C003088	Drug Design Savvas Savvides -- Department of Biochemistry, Physiology and Microbiology	3	A:2	80
19	C003615	Experimental Structural Biology Savvas Savvides -- Department of Biochemistry, Physiology and Microbiology	5	A:2	135
20	C002695	Bionanotechnology Kevin Braeckmans -- Department of Pharmaceutics	3	A:1	80
21	C002717	Metabolic Engineering Alain Goossens -- Department of Plant Biotechnology and Bioinformatics	3	A:1	80
22	C002713	Glycobiology Nico Callewaert -- Department of Biochemistry, Physiology and Microbiology	3	A:1	80
23	C002725	Molecular Pathophysiology and Experimental Therapy Charlotte Scott -- Department of Molecular Biology	6	A:1	160
24	C002738	Transgenetics of Animal Model Organisms Kris Vleminckx -- Department of Molecular Biology	6	A:2	160
25	C002708	Experimental Molecular Cell Biology Rudi Beyaert -- Department of Molecular Biology	3	A:2	80
26	C002716	Human Genetics and Genetic Diseases Bruce Poppe -- Department of Biomolecular Medicine	3	A:1	80
27	C002722	Molecular Cancer Biology Geert Berx -- Department of Molecular Biology	3	A:1	80
28	C002728	Neurobiology Roosmarijn Vandenbroucke -- Department of Molecular Biology	3	A:1	80
29	C002711	Food Microbiology and Safety Kurt Houf -- Department of Veterinary and Biosciences	3	A:1	80
30	C004007	Molecular Bacteria-Host Interactions Petra Van Damme -- Department of Biochemistry, Physiology and Microbiology	3	A:2	80
31	C002715	Host-Virus Interactions Xavier Saelens -- Department of Biochemistry, Physiology and Microbiology	3	A:1	80
32	C002719	Microbial Genomics Caroline De Tender -- Department of Biochemistry, Physiology and Microbiology	3	A:2	80
33	C002724	Molecular Microbial Ecology Marie Joossens -- Department of Biochemistry, Physiology and Microbiology	3	A:2	80
34	C003095	Plant Environment Interactions Dominique Van Der Straeten -- Department of Biology	3	A:1	80
35	C003097	Plant Biotic Interactions Sofie Goormachtig -- Department of Plant Biotechnology and Bioinformatics	3	A:2	80
36	C003098	The Plant Cell Lieven De Veylder -- Department of Plant Biotechnology and Bioinformatics	3	A:2	80
37	C003099	Plant Growth and Development Tom Beeckman -- Department of Plant Biotechnology and Bioinformatics	3	A:2	80
38	C003100	Molecular Plant Breeding Tom Ruttink -- Department of Plant Biotechnology and Bioinformatics	3	A:1	80
39	C003102	The Plant Factory Frank Van Breusegem -- Department of Plant Biotechnology and Bioinformatics	3	A:1	80
40	C003825	Functional Plant Genomics Klaas Vandepoele -- Department of Plant Biotechnology and Bioinformatics	3	A:1	80
41	C003618	Advanced Plant Biotic Interactions Sofie Goormachtig -- Department of Plant Biotechnology and Bioinformatics	3	A:1	80
42	C003163	Plant Yield Hilde Nelissen -- Department of Plant Biotechnology and Bioinformatics	3	A:1	80
43	C004006	Advanced Plant Cell Biology and Signaling Bert De Rybel -- Department of Plant Biotechnology and Bioinformatics	3	A:1	80
44	C002681	Advanced Programming in Bioinformatics Pieter De Bleser -- Department of Molecular Biology	3	A:1	80
45	C002720	Molecular and Experimental Immunology Martin Guillems -- Department of Molecular Biology	3	A:1	80
46	C002697	Biotechnological Techniques in Medical Diagnostics Dieter Deforce -- Department of Pharmaceutics	3	B:2	80

47	C002699	Cellular Stress, Cell Death and Senescence Peter Vandenabeele -- Department of Molecular Biology	3	A:1	80
48	C003311	Phylogenetics Olivier De Clerck -- Department of Biology	4	A:1	120
49	C002714	Host-Parasite Interactions Dirk de Graaf -- Department of Biochemistry, Physiology and Microbiology	3	A:1	80
50	C002737	The Eukaryotic Cell Cycle Lieven De Veylder -- Department of Plant Biotechnology and Bioinformatics	3	A:1	80
51	C002706	Epigenetics Wim Vanden Berghe -- Department of Molecular Biology	3	A:1	80
52	C002727	Molecular Simulations of Biosystems Toon Verstraelen -- Department of Physics and Astronomy	3	A:1	80
53	C004455	Advanced Biomolecular 3D-structure Determination by X-ray Crystallography and Cryo-Electron Microscopy Kenneth Verstraete -- Department of Biochemistry, Physiology and Microbiology	3	A:1	80
54	C003695	Applied High-throughput Analysis Tim De Meyer -- Department of Data Analysis and Mathematical Modelling	6	A:1	180
55	C004394	Microbes in Biotechnology Marie Joossens -- Department of Biochemistry, Physiology and Microbiology	6	A:1	150
56	C003242	Research Project	0	A:1, C:J, B:2	0

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 course name, using the following ISO codes:

bg: Bulgarian	de: German	es: Spanish	ja: Japanese	pl: Polish	sh: Croatian/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	

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 is 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 2025-2026	f: annually, from 2026-2027	i: annually, from 2027-2028
b: tri-annually	d: bi-annually, from 2025-2026	g: bi-annually, from 2026-2027	j: bi-annually, from 2027-2028
	e: tri-annually, from 2025-2026	h: tri-annually, from 2026-2027	k: tri-annually, from 2027-2028