

Faculty of Sciences

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

Language of instruction: English

Programme version 7

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 <i>Savvas Savvides -- Department of Biochemistry, Physiology and Microbiology</i>	4			A:1	120
2	C003526 Structural Bioinformatics <i>Savvas Savvides -- Department of Biochemistry, Physiology and Microbiology</i>	3			A:1	80
3	C000500 Bioinformatics 2 <i>Vanessa Vermeirssen -- Department of Molecular Biology</i>	3			A:2	80
4	C003527 Biostatistics <i>Kathleen Marchal -- Department of Plant Biotechnology and Bioinformatics</i>	4			A:1	120
5	C003671 Biotechnology and Society <i>Nick Vangheluwe -- Department of Plant Biotechnology and Bioinformatics</i>	3			A:J	80
6	C003616 Systems Biology <i>Bert De Rybel -- Department of Plant Biotechnology and Bioinformatics</i>	4			A:2	120
7	C002381 Biotechnology: Biosafety, GMP and Intellectual Property <i>Koen Vanhalst -- Department of Molecular Biology</i>	3			A:1	80
8	C002865 Bioethics <i>Michiel De Proost -- Department of Philosophy and Moral Sciences</i>	3			A:1	80
9	C002700 Comparative Genomics <i>Klaas Vandepoel -- Department of Plant Biotechnology and Bioinformatics</i>	3			A:2	80
10	C004456 Linux for Bioinformatics Environment <i>Svitlana Lukicheva -- Department of Plant Biotechnology and Bioinformatics</i>	3			A:1	80
11	C003083 Bioinformatics Algorithms <i>Veerle Fack -- Department of Mathematics, Computer Science and Statistics</i>	3			A:2	80
12	C003617 Modelling of Biological Systems <i>Steven Maere -- Department of Plant Biotechnology and Bioinformatics</i>	3			A:1	80
13	C004611 Biological Databases <i>Wim Van Criekinge -- Department of Data Analysis and Mathematical Modelling</i>	3			A:2	90
14	C003086 Proteomics <i>Bart Devreese -- Department of Biochemistry, Physiology and Microbiology</i>	3			A:1	80
15	C003670 Biomolecular Production Methods <i>Nico Callewaert -- Department of Biochemistry, Physiology and Microbiology</i>	4			A:1	110
16	C003088 Drug Design <i>Savvas Savvides -- Department of Biochemistry, Physiology and Microbiology</i>	3			A:2	80
17	C003615 Experimental Structural Biology <i>Savvas Savvides -- Department of Biochemistry, Physiology and Microbiology</i>	5			A:2	135

18	C002717	Metabolic Engineering <i>Alain Goossens -- Department of Plant Biotechnology and Bioinformatics</i>	3	A:1	80
19	C002713	Glycobiology <i>Nico Callewaert -- Department of Biochemistry, Physiology and Microbiology</i>	3	A:1	80
20	C002725	Molecular Pathophysiology and Experimental Therapy <i>Charlotte Scott -- Department of Molecular Biology</i>	6	A:1	160
21	C002738	Transgenetics of Animal Model Organisms <i>Claude Libert -- Department of Molecular Biology</i>	6	A:2	160
22	C002708	Experimental Molecular Cell Biology <i>Rudi Beyaert -- Department of Molecular Biology</i>	3	A:2	80
23	C002716	Human Genetics and Genetic Diseases <i>Bruce Poppe -- Department of Biomolecular Medicine</i>	3	A:1	80
24	C002722	Molecular Cancer Biology <i>Geert Berx -- Department of Molecular Biology</i>	3	A:1	80
25	C002728	Neurobiology <i>Roosmarijn Vandenbroucke -- Department of Molecular Biology</i>	3	A:1	80
26	C002711	Food Microbiology and Safety <i>Kurt Houf -- Department of Veterinary and Biosciences</i>	3	A:1	80
27	C004007	Molecular Bacteria-Host Interactions <i>Petra Van Damme -- Department of Biochemistry, Physiology and Microbiology</i>	3	A:2	80
28	C002715	Host-Virus Interactions <i>Xavier Saelens -- Department of Biochemistry, Physiology and Microbiology</i>	3	A:1	80
29	C002719	Microbial Genomics <i>Caroline De Tender -- Department of Biochemistry, Physiology and Microbiology</i>	3	A:2	80
30	C002724	Molecular Microbial Ecology <i>Marie Joossens -- Department of Biochemistry, Physiology and Microbiology</i>	3	A:2	80
31	C003095	Plant Environment Interactions <i>Sébastien Schoenaers -- Department of Biology</i>	3	A:1	80
32	C003097	Plant Biotic Interactions <i>Sofie Goormachtig -- Department of Plant Biotechnology and Bioinformatics</i>	3	A:2	80
33	C003098	The Plant Cell <i>Lieven De Veylder -- Department of Plant Biotechnology and Bioinformatics</i>	3	A:2	80
34	C003099	Plant Growth and Development <i>Tom Beeckman -- Department of Plant Biotechnology and Bioinformatics</i>	3	A:2	80
35	C003100	Molecular Plant Breeding <i>Tom Ruttink -- Department of Plant Biotechnology and Bioinformatics</i>	3	A:1	80
36	C003102	The Plant Factory <i>Frank Van Breusegem -- Department of Plant Biotechnology and Bioinformatics</i>	3	A:1	80
37	C003825	Functional Plant Genomics <i>Tom Jacobs -- Department of Plant Biotechnology and Bioinformatics</i>	3	A:1	80
38	C003618	Advanced Plant Biotic Interactions <i>Sofie Goormachtig -- Department of Plant Biotechnology and Bioinformatics</i>	3	A:1	80
39	C003163	Plant Yield <i>Hilde Nelissen -- Department of Plant Biotechnology and Bioinformatics</i>	3	A:1	80
40	C004006	Advanced Plant Cell Biology and Signaling <i>Bert De Rybel -- Department of Plant Biotechnology and Bioinformatics</i>	3	A:1	80
41	C002720	Molecular and Experimental Immunology	3		80
42	C002697	Biotechnological Techniques in Medical Diagnostics <i>Dieter Deforce -- Department of Pharmaceutics</i>	3	B:2	80
43	C002699	Cellular Stress, Cell Death and Senescence <i>Peter Vandenabeele -- Department of Chemistry</i>	3	A:1	80
44	C003311	Phylogenetics <i>Olivier De Clerck -- Department of Biology</i>	4	A:1	120
45	C002714	Host-Parasite Interactions <i>Dirk de Graaf -- Department of Biochemistry, Physiology and Microbiology</i>	3	A:1	80
46	C002737	The Eukaryotic Cell Cycle <i>Lieven De Veylder -- Department of Plant Biotechnology and Bioinformatics</i>	3	A:1	80

47	C002706	Epigenetics <i>Wim Vanden Berghe -- Department of Molecular Biology</i>	3	A:1	80
48	C004455	Advanced Biomolecular 3D-structure Determination by X-ray Crystallography and Cryo-Electron Microscopy <i>Kenneth Verstraete -- Department of Biochemistry, Physiology and Microbiology</i>	3	A:1	80
49	C003695	Applied High-throughput Analysis <i>Tim De Meyer -- Department of Data Analysis and Mathematical Modelling</i>	6	A:1	180
50	C004394	Microbes in Biotechnology <i>Marie Joossens -- Department of Biochemistry, Physiology and Microbiology</i>	6	A:1	150
51	C004655	High-dimensional Biological Data Modeling <i>Vanessa Vermeirssen -- Department of Molecular Biology</i>	3	A:2	90
52	C004656	Introduction to Artificial Intelligence for Scientists <i>Yvan Saeys -- Department of Mathematics, Computer Science and Statistics</i>	3	A:1	90
53	C004662	Foundations and Applications of Molecular Dynamics <i>Toon Verstraelen -- Department of Physics and Astronomy</i>	3	A:1	80
54	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 2027-2028	f: annually, from 2028-2029	i: annually, from 2029-2030
b: tri-annually	d: bi-annually, from 2027-2028	g: bi-annually, from 2028-2029	j: bi-annually, from 2029-2030
	e: tri-annually, from 2027-2028	h: tri-annually, from 2028-2029	k: tri-annually, from 2029-2030