

Faculty of Sciences

Bachelor of Science in Biochemistry and Biotechnology

Campus: UGent

Language(s) of instruction: Dutch (Programme sheet as of: 2021)

Programme version 13 Valid as from the academic year 2021-2022 (GOEDGEKEURD)

CBBIBI13.1 General Courses - CBBIBIalg 144.0 credits

Nr	Course	CRDT	Ref	MT1	MT2	Session	Contact	Study
1	C000514 Mathematics I [nl] Koen Thas -- Department of Mathematics: Algebra and Geometry	5.0		1	1	A:1	62.5	142
2	C001837 Mathematics II [nl] Koen Thas -- Department of Mathematics: Algebra and Geometry	5.0		1	2	A:2	62.5	142
3	C000057 Physics I [nl] Bartel Van Waeyenberge -- Department of Solid State Sciences	5.0		1	1	A:1	50.0	150
4	C000673 Physics II [nl] Bartel Van Waeyenberge -- Department of Solid State Sciences	5.0		1	2	A:2	50.0	150
5	C004091 General Chemistry [nl] Klaartje De Buysser -- Department of Chemistry	10.0		1	1	A:J	116.0	284
6	C003943 Chemical Structures [nl] José Martins -- Department of Organic Chemistry	5.0		1	1	A:1	54.5	134
7	C003481 Biodiversity of Plants s.L. (sensu Linnaeo) [nl] Annemieke Verbeken -- Department of Biology	5.0		1	1	A:1	68.0	138
8	C003761 Biodiversity of Animals [nl] Tom Moens -- Department of Biology	5.0		1	2	A:2	79.0	138
9	C003945 General Cell Biology [nl] Geert Berx -- Department of Molecular Biology	5.0		1	2	A:1	33.0	140
10	C003944 General Biochemistry: Molecules of Life [nl] Bart Devreese -- Department of Biochemistry, Physiology and Microbiology	5.0		1	2	A:2	43.7	125
11	C003390 Introduction to Life Sciences [nl] Peter Vandenaabeele -- Department of Molecular Biology	5.0		1	2	A:2	40.0	150
12	C000340 Statistics [nl] Lieven Clement -- Department of Applied Mathematics and Computer Science	5.0		2	3	A:1	58.5	138
13	C001815 Organic Chemistry: Introduction to Reactivity [nl] Johan Van der Eycken -- Department of Organic Chemistry	5.0		2	3	A:1	61.0	148
14	C002140 Analytical Chemistry [nl] Mieke Adriaens -- Department of Chemistry	5.0		2	3	A:1	61.0	149
15	C003361 General Microbiology [nl] Peter Vandamme -- Department of Biochemistry, Physiology and Microbiology	4.0		2	3	A:1	25.0	107
16	C003362 Molecular Biology I [nl] Wim Declercq -- Department of Molecular Biology	4.0		2	3	A:1	32.5	117
17	C003080 Programming [nl] Peter Dawyndt -- Department of Applied Mathematics and Computer Science	5.0	UKV	2	3	B:1	50.0	150
18	C003364 Integrated Practicum: Basic Analysis of Microbial and Eukaryotic Cells [nl] Peter Vandamme -- Department of Biochemistry, Physiology and Microbiology	3.0		2	3	A:1	58.0	75
19	C000227 Plant Physiology [nl] Dominique Van Der Straeten -- Department of Biology	5.0		2	4	A:2	57.0	145
20	C002369 Biomedical Physiology [nl] Dirk de Graaf -- Department of Biochemistry, Physiology and Microbiology	5.0		2	4	A:2	57.0	145
21	C003365 Biochemistry: Metabolism I [nl] Bart Devreese -- Department of Biochemistry, Physiology and Microbiology	4.0		2	4	A:2	27.5	105
22	C003366 Gene Technology I [nl] Geert Berx -- Department of Molecular Biology	4.0		2	4	A:2	25.0	110
23	C003367 Genetics I [nl] Sofie Goormachtig -- Department of Plant Biotechnology and Bioinformatics	4.0		2	4	A:2	31.0	120

24	C003946	Integrated Practicum: Basic Biotechnology [nl] Bartel Vanholme -- Department of Plant Biotechnology and Bioinformatics	3.0	2	4	A:2	76.0	90
25	C003379	Immunology [nl] Martin Guilliams -- Department of Molecular Biology	4.0	2	4	A:2	25.0	109
26	C003369	Biochemistry: Metabolism II [nl] Leander Meuris -- Department of Biochemistry, Physiology and Microbiology	4.0	3	5	A:1	36.3	107
27	C003370	Molecular Biology II [nl] Rudi Beyaert -- Department of Molecular Biology	4.0	3	5	A:1	25.0	105
28	C004096	Molecular Cell Biology [en] Roosmarijn Vandenbroucke -- Department of Molecular Biology	5.0	3	5	A:1	40.0	130
29	C003372	Genetics II [nl] Wout Boerjan -- Department of Plant Biotechnology and Bioinformatics	4.0	3	5	A:1	40.0	120
30	C003375	Integrated Practicum: Advanced Biotechnology, Part I [nl] Daniël Van Damme -- Department of Plant Biotechnology and Bioinformatics	3.0	3	5	A:1	60.0	75
31	C003376	Microbial Evolution and Diversity [nl] Peter Vandamme -- Department of Biochemistry, Physiology and Microbiology	4.0	3	5	A:1	25.0	108

CBBIBI13.2 Elective Courses - CBBIBIkeuze

36.0 credits

Subscribe to 1 module from the following list. Subject to approval by the faculty.

Students who have followed the Educational Track, can enter directly into the educational master's programme.

CBBIBI13.2.1 Research Track - CBBIBIkeuzebcbt

Subscribe to 4 credit units from 1 module from the following list.

Nr	Course	CRDT	Ref	MT1	MT2	Session	Contact	Study
1	C004097 Analytical Biochemistry [nl, en] Bart Devreese -- Department of Biochemistry, Physiology and Microbiology	3.0		3	5	A:1	20.0	90
2	C003374 Integrated Practicum: Biochemistry-Microbiology [nl] Bart Devreese -- Department of Biochemistry, Physiology and Microbiology	3.0		3	5	A:1	69.0	90
3	C003377 Plant Molecular Biology [nl] Lieven De Veylder -- Department of Plant Biotechnology and Bioinformatics	4.0		3	5	A:2	25.0	109
4	C003762 Developmental Biology [nl] Tom Beeckman -- Department of Plant Biotechnology and Bioinformatics	4.0		3	6	A:2	29.0	109
5	C004092 Bioinformatics I [en] Kathleen Marchal -- Department of Plant Biotechnology and Bioinformatics	4.0		3	6	A:2	30.0	120
6	C003378 Gene Technology II [nl] Geert De Jaeger -- Department of Plant Biotechnology and Bioinformatics	4.0		3	6	A:2	30.0	115
7	C003763 Integrated Practicum: Advanced Biotechnology, Part II [nl] Esther Hoste -- Department of Molecular Biology	4.0		3	6	A:2	76.0	100
8	C003382 Bachelor's Project [nl] Anne Willems -- Department of Biochemistry, Physiology and Microbiology	6.0		3	6	A:2	110.0	165

CBBIBI13.2.1.1 Elective Course List - CBBIBIkeuzelijst

Subscribe to no less than 4 credit units from the following list.

Nr	Course	CRDT	Ref	MT1	MT2	Session	Contact	Study
1	C002668 Scientific Communication in English [en] Geert Jacobs -- Department of Linguistics	5.0		3		A:2	45.0	150
2	C004395 Professional Literature [en] Hilde Nelissen -- Department of Plant Biotechnology and Bioinformatics	4.0		3		A:2	25.0	120

CBBIBI13.2.1.2 Elective Courses UGent - CHkeuzebaugent

Subscribe to courses for 4 credit units to be chosen from the bachelor's programmes of UGent, distributed over the first standard learning path as follows: 4 credit units in year 3.

CBBIBI13.2.2 Educational Track - CBBIBIkeuzeondw

Nr	Course	CRDT	Ref	MT1	MT2	Session	Contact	Study
1	H002169 Powerful Learning Environments [nl] Bram De Wever -- Department of Educational Studies	6.0		3		A:1	40.0	180
2	H002175 Teaching Methodology: Sciences [nl] Katrien Strubbe -- Department of Chemistry	6.0		3		A:J	45.0	180
3	H002170 Reference Internship: Sciences [nl] Katrien Strubbe -- Department of Chemistry	3.0		3		A:J	15.0	90
4	C004092 Bioinformatics I [en] Kathleen Marchal -- Department of Plant Biotechnology and Bioinformatics	4.0		3		A:2	30.0	120
5	C003378 Gene Technology II [nl] Geert De Jaeger -- Department of Plant Biotechnology and Bioinformatics	4.0		3		A:2	30.0	115

6	C003763	Integrated Practicum: Advanced Biotechnology, Part II [nl] Esther Hoste -- Department of Molecular Biology	4.0	3	A:2	76.0	100
7	C003382	Bachelor's Project [nl] Anne Willems -- Department of Biochemistry, Physiology and Microbiology	6.0	3	A:2	110.0	165

CBBIBI13.2.2.1 Elective Courses Biochemistry and Biotechnology -

CBBIBIkeuzeondwkeuzebcbt

[Subscribe to 4 credit units from the following list.](#)

Nr	Course	CRDT	Ref	MT1	MT2	Session	Contact	Study
1	C003377 Plant Molecular Biology [nl] Lieven De Veylder -- Department of Plant Biotechnology and Bioinformatics	4.0		3	5	A:2	25.0	109
2	C003762 Developmental Biology [nl] Tom Beeckman -- Department of Plant Biotechnology and Bioinformatics	4.0		3	6	A:2	29.0	109

CBBIBI13.2.3 Research-Internationalisation Track (GUGC, South-Korea) -

CBBIBIkeuzeint

[1st semester courses are taught at UGent.](#)

[2nd semester courses are taught at GUGC \(South-Korea\).](#)

Nr	Course	CRDT	Ref	MT1	MT2	Session	Contact	Study
1	C004097 Analytical Biochemistry [nl, en] Bart Devreese -- Department of Biochemistry, Physiology and Microbiology	3.0		3	5	A:1	20.0	90
2	C003374 Integrated Practicum: Biochemistry-Microbiology [nl] Bart Devreese -- Department of Biochemistry, Physiology and Microbiology	3.0		3	5	A:1	69.0	90
3	O000180 Bioinformatics 2 [en] Zhen Li -- Department of Plant Biotechnology and Bioinformatics	5.0		3	6	A:2	55.0	150
4	O000145 Plant Biotechnology [en] Godelieve Gheysen -- Department of Biotechnology	4.0		3	6	A:2	48.0	108
5	O000024 Economics and Marketing [en] Yung Hung -- Department of Agricultural Economics	5.0		3	6	A:2	60.0	150
6	O000165 Bachelor's Project [nl, en] Michael Dunne -- Department of Environmental Technology, Food Technology and Molecular Biotechnology	12.0		3	6	B:2	90.0	360

CBBIBI13.2.3.1 Elective Course List - CBBIBIkeuzeintkeuze

[Subscribe to 1 courses from the following list.](#)

Nr	Course	CRDT	Ref	MT1	MT2	Session	Contact	Study
1	C003762 Developmental Biology [nl] Tom Beeckman -- Department of Plant Biotechnology and Bioinformatics	4.0		3	6	A:2	29.0	109
2	C003377 Plant Molecular Biology [nl] Lieven De Veylder -- Department of Plant Biotechnology and Bioinformatics	4.0		3	6	A:2	25.0	109
3	O000168 Experimental Food Biochemistry [en]	5.0		3	6	A:2	60.0	150
4	O000167 Reflection on Sustainable Development [en] Stephen Depuydt -- Department of Plant Biotechnology and Bioinformatics	5.0		3	6	A:2	25.0	125