

Study Programme

Academic year 2020-2021

Faculty of Sciences

Campus: UGent

Language(s) of instruction: English (Programme sheet as of: 2018)

Programme version 5 Valid as from the academic year 2020-2021 (VOORSTEL)

1 General Courses - CMBIOIBEalg

1.1 Applied Bioinformatics Module - CMBIOIapplbioinf

Nr					Session		Study
1	C003694	Statistical Genomics [en]	6.0		A:1	65.0	180
	Lieven Clement Department of Applied Mathematics and Computer Science						
2	C003695	Applied High-throughput Analysis [en]	6.0	1	A:1	60.0	180
		Tim De Meyer Department of Data Analysis and Mathematical Mo	delling				
3	C003696	Genome Biology [en]	6.0	1	A:2	60.0	180
		Klaas Vandepoele Department of Plant Biotechnology and Bioinfo	ormatics				
4	C004000	Integrative Biology [en]	3.0	1	A:2	30.0	80
		Kathleen Marchal Department of Plant Biotechnology and Bioinfor	matics				
5	C003698	Design Project [en]	9.0	1	A:J	30.0	270
		Jan Fostier Department of Information Technology					
6	C004122	Capita Selecta in Bioinformatics [en]	3.0		A:J	25.0	75
		Kathleen Marchal Department of Plant Biotechnology and Bioinfor	matics				

2 Courses Related to the Main Subject - CMBIOIBEafst

2.1 Bioscience Engineering Module - CMBIOIBEbioeng

Subscribe to 1 module from the following list. Students of the Bachelor of Science in biochemistry and biotechnology (or an equivalent) subscribe for "Reorientation B.Sc. in Biochemistry and Biotechnology" Students of the Bachelor of Science in bioscience engineering (or an equivalent) and students who succesfully completed the preparatory course subscribe for "Reorientation B.Sc. in Bioscience Engineering". Subject to approval by the curriculum committee. 1002612 Industrial Biotechnology [en] 5.0 2 A:1 1

		Wim Soetaert Department of Biotechnology					
2	1002617	Bio-imaging and Image Informatics [en]	4.0	2	A:1	40.0	120
		Andre Skirtach Department of Biotechnology					
3	1002618	Process Engineering 2 [nl, en]	5.0	2	A:1	50.0	150
		Paul Van der Meeren Department of Green Chemistry and	d Technology				
2.	2.1.1 Reorientation B.Sc. in Biochemistry and Biotechnology - CMBIOIBEcbbcbt				13.0 credits		

Nr					Session		Study
1	1002442	Process Engineering [nl]	4.0	1	A:1	40.0	120
		Jo Dewulf Department of Green Chemistry and Technology					
2	1002440	Data Science [nl]	5.0	1	A:2	50.0	150
	Jan Verwaeren Department of Data Analysis and Mathematical Modelling						
3	1002445	Modelling and Simulation of Biosystems [nl]	4.0	2	A:2	40.0	120
	Ingmar Nopens Department of Data Analysis and Mathematical Modelling						
2.1	2.1.2 Reorientation B.Sc. in Bioscience Engineering - CMBIOISBbioeng					0 credits	

N			CRDT	Ref MT1 MT2	Session		Study
1	1002611	Plant Biotechnology [en]	5.0	2	A:2	50.0	150
		Godelieve Gheysen Department of Biotechnology					
2	1002615	Protein Chemistry [en]	4.0	2	A:1	40.0	120
		Els Van Damme Department of Biotechnology					

33.0 credits

33.0 credits

50.0

150

2.2 Applied Mathematics and Informatics Module - CMBIOIappmathinfo

21.0 credits

Nr	Course		CRDT	Ref	MT1 MT2	Session	Contact	Study	
1	1002642	Biological Databases [en]	3.0		1	B:2	30.0	90	
	_	Wim Van Criekinge Department of Data Analysis and Mathematical I	Modelling	9					
2	C002732	Programming for Bioinformatics [en]	6.0		1	A:1	50.0	160	
	_	Pieter De Bleser Department of Molecular Biology							
3	C003701	Selected Topics in Mathematical Optimization [en]	3.0			A:1	30.0	75	
	_	Michiel Stock Department of Data Analysis and Mathematical Model	ling						
4	C003083	Bioinformatics Algorithms [en]	3.0		1	A:2	25.0	80	
		Veerle Fack Department of Applied Mathematics and Computer Scie	ence						
5	1002091	Predictive Modelling [en]	6.0			A:2	60.0	150	
		Willem Waegeman Department of Data Analysis and Mathematical N	Aodelling						
2.3	3 Master	's Dissertation - CMBIOIBEmasterproef				30.0) credits		
Nr	Course		CRDT	Ref	MT1 MT2	Session	Contact	Study	
1	C003714	Master's Dissertation [en] N. N.	30.0		2	A:J	300.0	900	
3	Elective	Courses - CMBIOIBEkeuze							
Sul Sul witl	Subscribe to no less than 1 and no more than 3 modules from the following list. Subject to approval by the faculty. Subscribe to: 9 credit units (students with module Reorientation B.Sc. in Biochemistry and Biotechnology) or 13 credit units (students with module Reorientation B.Sc. in Bioscience Engineering).								
3.	1 Elective	e Course List - CMBIOIkeuzelijst							
Sul	bscribe to 6 o	credit units from the following list.							
Nr	Course		CRDT	Ref	MT1 MT2	Session	Contact	Study	
1	C004001	Internship [en] N. N.	6.0			A:1	60.0	150	
3.2 Elective Course List - Entrepreneurship and Management - CMBIOIkeuzemanagement Subscribe to no more than 8 credit units from the following list. Subject to approval by the faculty.									
Nr	Course		CRDT	Ref	MT1 MT2	Session	Contact	Study	
1	1002720	Consumer Behaviour and Marketing of Bio-industrial products	5.0			A:2	50.0	150	
		Wim Verbeke Department of Agricultural Economics							
2	1001967	Intellectual Property and Valorization [en]	3.0			A:2	30.0	90	
		Benedikt Sas Department of Food Technology, Safety and Health							

4.0

3.0

3.0

4.0

A:2

A:2

A:2

A:2

45.0

36.0

30.0

30.0

120

90

75

120

Bioscience Engineering. Subscribe to no more than 5 credit units outside the domain of bioinformatics and other related sciences including the <u>Ghent University</u> <u>elective course list</u>. Subject to approval by the curriculum committee.

Subscribe to courses from the master programmes of Ghent University, including the Intensive Programmes of the Faculty of

Mario Vanhoucke -- Department of Business Informatics and Operations Management

Frank Gielen -- Department of Information Technology

Maikel Pellens -- Department of Marketing, Innovation and Organisation

Johan Verrue -- Department of Marketing, Innovation and Organisation

C000833 Project Management [nl]

Entrepreneurship [nl]

3.3 Elective Courses UGent - CHkeuzeugent

E076471 Dare to Start [en]

E076460 Dare to Venture [en]

3

4

5

6

1001949