

Faculty of Sciences

Brugprogramma Master of Science in Bioinformatics -- Engineering

Language(s) of instruction: English (Programme sheet as of: 2015)

Programme version 1 Valid as from the academic year 2015-2016 (ONTWERP)

1 General Courses 33.0 credits

1.1 Applied Bioinformatics Module 33.0 credits

Nr	Course	CRDT	Ref	MT1	MT2	Session	Contact	Study
1	C003694 Statistical Genomics [en]	6.0		1		A:1	65.0	180
2	C003695 Applied High-throughput Analysis [en]	6.0		1		A:1	60.0	180
3	C003696 Genome Biology [en]	6.0		1		A:2	60.0	180
4	C003697 Integrative Biology [en]	6.0		1		A:2	60.0	180
5	C003698 Design Project [en]	9.0		1		A:J	30.0	270

2 Courses Related to the Main Subject 51.0 credits

2.1 Engineering Module 42.0 credits

Nr	Course	CRDT	Ref	MT1	MT2	Session	Contact	Study
1	E001161 Mathematic Models [nl]	6.0		1		A:1	60.0	180
2	E001470 Discrete Mathematics II [nl]	6.0		1		A:2	60.0	180
3	C003711 Computational Challenges in Bioinformatics [en]	6.0		1		A:2	60.0	180
4	E061330 Machine Learning [en]	6.0		2		B:1	60.0	180
5	E017930 Parallel and Distributed Software Systems [en]	6.0		2		A:1	60.0	180
6	E004120 Optimisation Techniques []	6.0		2		B:2(2016)	60.0	180

2.1.1 Elective Course List Engineering 6.0 credits

Subscribe to 6 credit units from the following list.

Nr	Course	CRDT	Ref	MT1	MT2	Session	Contact	Study
1	E034140 Parallel Computer Systems [en]	6.0				A:1	60.0	180
2	E003600 Information Theory [en]	6.0				B:2	60.0	180
3	E019400 Information Security [en]	6.0				B:2	60.0	180
4	E017822 Software Architecture [en]	4.0				A:1	60.0	120
5	E017840 Software Management [nl]	6.0				A:2	37.5	180
6	E092620 Modelling of Physiological Systems [en]	6.0				A:1	67.5	180
7	E074010 Quantitative Cell Biology [en]	3.0				A:1	30.0	90
8	E017421 Programming Languages [en]	6.0				A:2	60.0	180
9	E003421 Estimation and Decision Techniques [en]	4.0				A:1	30.0	120
10	C003399 Computerintensive Statistical Methods [en]	5.0				A:2	62.5	150
11	E018210 Big Data Science [en]	6.0				A:2	60.0	180

2.2 Biology Module 9.0 credits

Nr	Course	CRDT	Ref	MT1	MT2	Session	Contact	Study
1	C003712 Cellular and Molecular Biology [en]	6.0		1		A:1	60.0	180
2	C003713 Introduction to Bioinformatics [en]	3.0		1		A:1	30.0	90

3 Elective Courses 6.0 credits

Subscribe to 6 credit units from the programmes from Ghent University. Subject to approval by the CurriculumCommittee.

4 Master Dissertation 30.0 credits

Nr	Course	CRDT	Ref	MT1	MT2	Session	Contact	Study
1	C003720 Master Dissertation [en]	30.0		2		A:J	300.0	900