

Study Programme

Academic year 2021-2022

Faculty of Sciences

Master of Science in Computer Science

Language of instruction: Dutch

Programme version 5

1	General	Courses			60	credits
Nr 1	Course C003241	Fundaments of Programming Languages	CRDT 6	Ref MT1	Session A:1	Study 165
•	0003241	Christophe Scholliers Department of Applied Mathematics and Computer Sc	_	ı	Λ.1	103
2	C003758	Machine Learning [en] Yvan Saeys Department of Applied Mathematics and Computer Science	6	1	A:1	180
3	E017930	Parallel and Distributed Software Systems [en] Jan Fostier Department of Information Technology	6	1	A:1	180
4	C003349	Discrete Algorithms Veerle Fack Department of Applied Mathematics and Computer Science	6	1	A:2	165
5	C004072	Software Engineering Lab 3 Sofie Van Gassen Department of Applied Mathematics and Computer Scien	6 nce	1	A:2	180
6	E018520	Compilers [en] Bjorn De Sutter Department of Electronics and Information Systems	6	1	A:2	180
7	C004041	Data Visualization Bart Mesuere Department of Applied Mathematics and Computer Science	3	1	A:2	90
8	C000957	Intellectual Property Rights Hendrik Vanhees Department of Interdisciplinary Study of Law, Private Law	3 and Busine	1 ess Law	A:2	90
9	C004073	Computer Graphics Peter Lambert Department of Electronics and Information Systems	6	2	A:1	180
10	C004074	Big Data Science [en] Yvan Saeys Department of Applied Mathematics and Computer Science	6	2	A:2	165
11	C004075	Internship Peter Dawyndt Department of Applied Mathematics and Computer Science	6	2	A:2	180
2	Minors 30 credi				credits	

2 Minors 30 credits

Subscribe to 1 minor from the following list.

2.1 Minor Research 30 credits

Subscribe to no less than 18 and no more than 30 credit units from the following list.

Nr	Course		CRDT Ref MT1	Session	Study		
1	E010310	Image Processing	6	A:1	180		
		Wilfried Philips Department of Telecommunications and Information Processing					
2	C000627	Computability and Complexity [en]	6	A:1	165		
3	E018921	Document Processing [en]	4	A:1	120		
		Antoon Bronselaer Department of Telecommunications and Information Pro	cessing				
4	C004011	Advanced Numerical Methods	6	A:1	180		
		Marnix Van Daele Department of Applied Mathematics and Computer Scien	ice				
5	E018441	Advanced Databases	6	A:1	180		
		Antoon Bronselaer Department of Telecommunications and Information Pro	cessing				
6	E019170	Internet of Things [en]	6	A:1	180		
		Jeroen Hoebeke Department of Information Technology					
7	E019370	Robotics [en]	6	A:1	180		
		Tony Belpaeme Department of Electronics and Information Systems					

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8 E017822	Software Architecture	4		120
	Frank Gielen Department of Information Technology			
9 E017941	Software Hacking and Protection [en] Bjorn De Sutter Department of Electronics and Information Systems	6	A:1	180
10 E018230	Recommender Systems [en] Luc Martens Department of Information Technology	6	A:2	180
11 C000145	Algorithmic Graph Theory Gunnar Brinkmann Department of Applied Mathematics and Computer Science	6	A:2	165
12 E018221	Management of Imperfect Data	4		120
13 C001719	Capita Selecta in Soft Computing Chris Cornelis Department of Applied Mathematics and Computer Science	6	(A:2) ^d	165
14 C003711	Computational Challenges in Bioinformatics [en] Jan Fostier Department of Information Technology	6	A:2	180
15 C001026	Computer Algebra Andreas Weiermann Department of Mathematics: Analysis, Logic and Discrete	6 Mathematics	A:2	165
16 E735023	Computer Vision	3	A:2	90
17 E003600	Information Theory [en] Heidi Steendam Department of Telecommunications and Information Processin	6 ng	B:2	180
18 E017920	Design of Multimedia Applications [en] Glenn Van Wallendael Department of Electronics and Information Systems	6	A:2	180
19 E010220	Speech Processing [en] Kris Demuynck Department of Electronics and Information Systems	4	A:2	120
20 E034150	Blockchain Technologies and Applications [en] Bjorn De Sutter Department of Electronics and Information Systems	3	A:1	90
2.1.1 Elective Courses Flemish Community				2 credits

Subscribe to no more than 12 credit units to be chosen from the study programmes of UGent including the <u>Ghent University elective courses</u> or study programmes of other higher education of the Flemish Community.

2.2 Minor Economics and Business Administration

30 credits

Subscribe to 30 credit units from no less than 1 and no more than 2 modules from the following list.

2.2.1 General Courses

Subscribe to no less than 24 and no more than 30 credit units from the following list, distributed over the first standard learning path as

follows: no more than 24 credit units in year 1.

Dare to Venture can be chosen if you have already subscribed to Introduction to Entrepreneurship.

N	Ir Course	s can be chosen if you have already subscribed to introduction to Entrepreheur		f MT1	Session	Study
1	F000758	Economics Bruno Merlevede Department of Economics	5		A:1	150
2	E076930	Financial and Cost Price Reporting in Companies Faculteit Economie en Bedrijfskunde, Sophie Maussen Department of Acco	6 ounting, Corpora	te Finance and T	A:1 axation	180
3	E076431	Introduction to Entrepreneurship [en] Petra Andries Department of Marketing, Innovation and Organisation	3		A:1	90
4	E076460	Dare to Venture [en] Johan Verrue Department of Marketing, Innovation and Organisation	4		A:2	120
5	F000845	Business Administration Mirjam Knockaert Department of Marketing, Innovation and Organisation	4		A:2	120
6	F000551	Business Skills [en] Mieke Audenaert Department of Marketing, Innovation and Organisation	4		C:2	120
7	F000768	Marketing Management Maggie Geuens Department of Marketing, Innovation and Organisation	6		A:1	180
8	F000855	Organization Theory [en] Adelien Decramer Department of Marketing, Innovation and Organisation	4		A:2	120
9	F000596	Business Cycles and Growth Freddy Heylen Department of Economics	6		A:1	180
1	0 F000446	Markets and Prices Dirk Van de gaer Department of Economics	6		A:1	180
1	1 F000093	Financial Markets and Institutions Rudi Vander Vennet Department of Economics	5		A:2	150
1	2 F000752	Environmental Economics and Policy Brent Bleys Department of Economics	4		B:2	120
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2.2.2 Elective Courses UGent

Subscribe to courses for no more than 6 credit units to be chosen from the courses of UGent.

3 Master's Dissertation			30 credits			
Nr Course	CRDT Ref	MT1	Session	Study		
1 C002309 Master's Dissertation	30	2	A:J	825		
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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 cours name, using the following ISO codes:

bg: Bulgarian de: German es: Spanish pl: Polish sh: Kroatian/Serbian ja: Japanese 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 in 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 2022-2023 f: annually, from 2023-2024 i: annually, from 2024-2025 g: bi-annually, from 2023-2024 g: bi-annually, from 2023-2024 g: bi-annually, from 2023-2024 g: bi-annually, from 2023-2024 h: tri-annually, from 2023-2024 k: tri-annually, from 2024-2025

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