

# Study Programme

Academic year 2021-2022

**Faculty of Sciences** Master of Science in Computer Science

Language of instruction: Dutch

	•	ne version 5				
1	Genera	l Courses			60 c	redits
Nr	Course		CRDT Ref	MT1	Session	Study
1	C003241	Fundaments of Programming Languages Christophe Scholliers Department of Mathematics, Computer Science and Statistics	6	1	A:1	165
2	C003758	Machine Learning [en]  Yvan Saeys Department of Mathematics, Computer Science and Statistics	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 Mathematics, Computer Science and Statistics	6	1	A:2	165
5	C004072	Software Engineering Lab 3 Sofie Van Gassen Department of Mathematics, Computer Science and Statistics	6	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 Mathematics, Computer Science and Statistics	3	1	A:2	90
8	C000957	Intellectual Property Rights Hendrik Vanhees Department of Interdisciplinary Study of Law, Private Law and Business Law	3	1	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 Mathematics, Computer Science and Statistics	6	2	A:2	165
11	C004075	Internship Peter Dawyndt Department of Mathematics, Computer Science and Statistics	6	2	A:2	180
2	Minors				30 c	redits
Su	bscribe to 1	minor from the following list.				
		Research			30	credits
	bscribe to no Course	less than 18 and no more than 30 credit units from the following list.	CRDT Ref	MT1	Session	Studv
1		Image Processing Wilfried Philips Department of Telecommunications and Information Processing	6		A:1	180
2	C000627	Computability and Complexity [en]  David Fernández-Duque Department of Mathematics: Analysis, Logic and Discrete Mathematics	6		A:1	165
3	E018921	Document Processing [en] Antoon Bronselaer Department of Telecommunications and Information Processing	4		A:1	120
4	C004011	Advanced Numerical Methods	6		A:1	180

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Marnix Van Daele -- Department of Mathematics, Computer Science and Statistics

Jeroen Hoebeke -- Department of Information Technology

Tony Belpaeme -- Department of Electronics and Information Systems

Antoon Bronselaer -- Department of Telecommunications and Information Processing

E018441 Advanced Databases

E019170 Internet of Things [en]

E019370 Robotics [en]

6

A:1

A:1

A:1

180

180

180

8	E017822	Software Architecture Frank Gielen Department of Information Technology	4		120
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 Mathematics, Computer Science and Statistics	6	A:2	165
12	E018221	Management of Imperfect Data	4		120
13	C001719	Capita Selecta in Soft Computing Chris Cornelis Department of Mathematics, Computer Science and Statistics	6	(A:2) <sup>d</sup>	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 Mathematics	6	A:2	165
16	E735023	Computer Vision	3	A:2	90
17	E003600	Information Theory [en] Heidi Steendam Department of Telecommunications and Information Processing	6	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 Flectiv	va Courses Flamish Community		12	cradite

## 2.1.1 Elective Courses Flemish Community

12 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.

Nr	Course		CRDT Ref	MT1 Session	Study
1	F000758	Economics Bruno Merlevede Department of Economics	5	A:1	150
2	E076930	Financial and Cost Price Reporting in Companies  Sophie Maussen Department of Accounting, Corporate Finance and Taxation	6	A:1	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
10	F000446	Markets and Prices Dirk Van de gaer Department of Economics	6	A:1	180
11	F000093	Financial Markets and Institutions Rudi Vander Vennet Department of Economics	5	A:2	150

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12 F000752	Environmental Economics and Policy	4	B:2	120
	Brent Bleys Department of Economics			
13 F000859	Corporate Social Responsibility	3	A:2	90

### 2.2.2 Elective Courses UGent

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

1 Session	Study
A:J	825
ИT	MT1 Session
2	2 A:J

#### 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 ja: Japanese pl: Polish sh: Kroatian/Serbian zh: Chinese pt: Portuguese cs: Czech el: Greek fr: French sl: Slovene

da: Danish

en: English

nl: Dutch

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 b: tri-annually

c: annually, from 2022-2023 d: bi-annually, from 2022-2023 e: tri-annually, from 2022-2023 f: annually, from 2023-2024 g: bi-annually, from 2023-2024 h: tri-annually, from 2023-2024 i: annually, from 2024-2025 j: bi-annually, from 2024-2025 k: tri-annually, from 2024-2025

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