GHENT UNIVERSITY

Study Programme

Academic year 2020-2021

Faculty of Sciences

Bachelor of Science in Computer Science

Language of instruction: Dutch

Programme version 8

1 General Courses — 162 credits

Nr	Course		CRDT	Ref	MT1	Session	Study
1	C003770	Programming *Kris Coolsaet -- Department of Mathematics, Computer Science and Statistics*	6		1	A:1	180
2	C003771	Databases *Guy De Tré -- Department of Telecommunications and Information Processing*	6		1	A:1	180
3	C000939	Computer Use *Peter Dawyndt -- Department of Mathematics, Computer Science and Statistics*	6		1	A:1	180
4	C002908	Reasoning, Abstracting and Formulating *Eric Laermans -- Department of Information Technology*	6		1	A:1	180
5	C001893	Discrete Mathematics *Bart De Bruyn -- Department of Mathematics: Algebra and Geometry*	6		1	A:1	180
6	C003772	Object Oriented Programming *Kris Coolsaet -- Department of Mathematics, Computer Science and Statistics*	6		1	A:2	180
7	C003773	Algorithms and Data Structures 1 *Veerle Fack -- Department of Mathematics, Computer Science and Statistics*	6		1	A:2	180
8	C002178	Scripting Languages *Peter Dawyndt -- Department of Mathematics, Computer Science and Statistics*	6		1	A:2	180
9	C001094	Linear Algebra and Geometry *Sara Rottey -- Department of Mathematics: Analysis, Logic and Discrete Mathematics*	6		1	A:2	180
10	C003774	Calculus *Tom De Medts -- Department of Mathematics: Algebra and Geometry*	6		1	A:2	180
11	C003775	Functional Programming *Christophe Scholliers -- Department of Mathematics, Computer Science and Statistics*	6		2	A:1	180
12	C003776	System Programming *Filip De Turck -- Department of Information Technology*	6		2	A:1	180
13	C003777	Algorithms and Data Structures 2 *Gunnar Brinkmann -- Department of Mathematics, Computer Science and Statistics*	6		2	A:1	180
14	E008620	Communication Networks *Wouter Tavernier -- Department of Information Technology*	6		2	A:1	180
15	C003778	Statistics and Probability *Christophe Ley -- Department of Mathematics, Computer Science and Statistics*	6		2	A:1	180
16	C003779	Webdevelopment *Ruben Verborgh -- Department of Electronics and Information Systems*	6		2	A:2	180
17	C003780	Software Engineering Lab 1 *Bart Dhoedt -- Department of Information Technology*	6		2	A:2	180
18	C002126	Multimedia *Peter Lambert -- Department of Electronics and Information Systems*	6		2	A:2	180
19	E034110	Computer Architecture *Koen De Bosschere -- Department of Electronics and Information Systems*	6		2	A:2	180
20	C001521	Scientific Computing *Marnix Van Daele -- Department of Mathematics, Computer Science and Statistics*	6		2	A:2	180
21	C003756	Artificial Intelligence *Yvan Saeys -- Department of Mathematics, Computer Science and Statistics*	6		3	A:1	180

22	C003782	Algorithms and Datastructures 3 *Gunnar Brinkmann -- Department of Mathematics, Computer Science and Statistics*	6		3	A:1	180
23	E019010	Operating Systems *Koen De Bosschere -- Department of Electronics and Information Systems*	6		3	A:1	180
24	C003783	Logic Programming *Christophe Scholliers -- Department of Mathematics, Computer Science and Statistics*	6		3	A:2	180
25	C003784	Software Engineering Lab 2 *Jan Goedgebeur -- Department of Mathematics, Computer Science and Statistics*	6		3	A:2	180
26	C003789	Computational Biology *Peter Dawyndt -- Department of Mathematics, Computer Science and Statistics*	6		3	A:2	180
27	C003785	Automata, Computability and Complexity *Leo Storme -- Department of Mathematics: Analysis, Logic and Discrete Mathematics*	6		3	A:2	180

2 Minors 18 credits

Subscribe to 1 minor from the following list. Subject to approval by the faculty.
Students who have followed the Minor Education, can enter directly into the educational master's programme.

2.1 Minor Security & Parallel Systems 18 credits

Nr	Course		CRDT	Ref	MT1	Session	Study
1	E034140	Parallel Computer Systems [en] *Lieven Eeckhout -- Department of Electronics and Information Systems*	6		3	A:1	180
2	E019400	Information Security [en] *Eric Laermans -- Department of Information Technology*	6		3	B:2	180
3	C003786	Modelling and Simulation *Marnix Van Daele -- Department of Mathematics, Computer Science and Statistics*	6		3	A:1	180

2.2 Minor Electronics & Telecommunication 18 credits

Nr	Course		CRDT	Ref	MT1	Session	Study
1	C003787	Introduction to Telecommunications *Lieven Eeckhout -- Department of Electronics and Information Systems*	6		3	A:1	180
2	C003806	Introductory Electronics *Bjorn De Sutter -- Department of Electronics and Information Systems*	6		3	A:2	180
3	C003788	Mathematical Modelling in Engineering *Sigiswald Barbier -- Department of Electronics and Information Systems*	6		3	A:1	180

2.3 Minor Education 18 credits

Nr	Course		CRDT	Ref	MT1	Session	Study
1	H002169	Powerful Learning Environments *Bram De Wever -- Department of Educational Studies*	6		3	A:1	180
2	H002175	Teaching Methodology: Sciences *Katrien Strubbe -- Department of Chemistry*	6		3	A:J	180
3	H002170	Reference Internship: Sciences *Katrien Strubbe -- Department of Chemistry*	3		3	A:J	90
4	C004093	Mathematical Skills and Know-how *Hendrik Van Maldeghem -- Department of Mathematics: Algebra and Geometry*	3		3	A:2	85

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
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 2021-2022	f: annually, from 2022-2023	i: annually, from 2023-2024
b: tri-annually	d: bi-annually, from 2021-2022	g: bi-annually, from 2022-2023	j: bi-annually, from 2023-2024
	e: tri-annually, from 2021-2022	h: tri-annually, from 2022-2023	k: tri-annually, from 2023-2024