Study Programme

Academic year 2023-2024

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

Nr	Course		CRDT	Ref	MT1	Session	Study
22	C003782	Algorithms and Datastructures 3	6	3		A:1	180
		Gunnar Brinkmann -- Department of Mathematics, Computer Science and Statistics					
23	E019010	Operating Systems	6	3		A:1	180
		Koen De Bosschere -- Department of Electronics and Information Systems					
24	C003783	Logic Programming	6	3		A:2	180
		Christophe Scholliers -- Department of Mathematics, Computer Science and Statistics					
25	C003784	Software Engineering Lab 2	6	3		A:2	180
		Bart Mesuere -- Department of Mathematics, Computer Science and Statistics					
26	C003789	Computational Biology	6	3		A:2	180
		Peter Dawyndt -- Department of Mathematics, Computer Science and Statistics					
27	C003785	Automata, Computability and Complexity	6	3		A:2	180
		Leo Storme -- Department of Mathematics: Analysis, Logic and Discrete Mathematics					

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]	6	3		A:1	180
		Lieven Eeckhout -- Department of Electronics and Information Systems					
2	E019400	Information Security [en]	6	3		B:2	180
		Eric Laermans -- Department of Information Technology					
3	C003786	Modelling and Simulation	6	3		A:1	180
		Marnix Van Daele -- Department of Mathematics, Computer Science and Statistics					

2.2 Minor Electronics & Telecommunication — 18 credits

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

2.3 Minor Education — 18 credits

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

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 2024-2025	f: annually, from 2025-2026	i: annually, from 2026-2027
b: tri-annually	d: bi-annually, from 2024-2025	g: bi-annually, from 2025-2026	j: bi-annually, from 2026-2027
	e: tri-annually, from 2024-2025	h: tri-annually, from 2025-2026	k: tri-annually, from 2026-2027