

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

22	C003782	Algorithms and Datastructures 3 <i>Gunnar Brinkmann -- Department of Mathematics, Computer Science and Statistics</i>	6	3	A:1	180
23	E019010	Operating Systems <i>Koen De Bosschere -- Department of Electronics and Information Systems</i>	6	3	A:1	180
24	C003783	Logic Programming <i>Christophe Scholliers -- Department of Mathematics, Computer Science and Statistics</i>	6	3	A:2	180
25	C003784	Software Engineering Lab 2 <i>Bart Mesuere -- Department of Mathematics, Computer Science and Statistics</i>	6	3	A:2	180
26	C003789	Computational Biology <i>Peter Dawyndt -- Department of Mathematics, Computer Science and Statistics</i>	6	3	A:2	180
27	C003785	Automata, Computability and Complexity <i>Leo Storme -- Department of Mathematics: Analysis, Logic and Discrete Mathematics</i>	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] <i>Lieven Eeckhout -- Department of Electronics and Information Systems</i>	6		3	A:1	180
2	E019400 Information Security [en] <i>Eric Laermans -- Department of Information Technology</i>	6		3	B:2	180
3	C003786 Modelling and Simulation <i>Marnix Van Daele -- Department of Mathematics, Computer Science and Statistics</i>	6		3	A:1	180

### 2.2 Minor Electronics & Telecommunication

18 credits

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

### 2.3 Minor Education

18 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	H002169 Powerful Learning Environments <i>Bram De Wever -- Department of Educational Studies</i>	6		3	A:1	180
2	H002175 Teaching Methodology: Sciences <i>Katrien Strubbe -- Department of Chemistry</i>	6		3	A:J	180
3	H002170 Reference Internship: Sciences <i>Katrien Strubbe -- Department of Chemistry</i>	3		3	A:J	90
4	C004093 Mathematical Skills and Know-how <i>Koen Thas -- Department of Mathematics: Algebra and Geometry</i>	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 course name, using the following ISO codes:

bg: Bulgarian	de: German	es: Spanish	ja: Japanese	pl: Polish	sh: Croatian/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 is 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
b: tri-annually	d: bi-annually, from 2022-2023	g: bi-annually, from 2023-2024	j: bi-annually, from 2024-2025
	e: tri-annually, from 2022-2023	h: tri-annually, from 2023-2024	k: tri-annually, from 2024-2025