

Study Programme

Academic year 2025-2026

Faculty of Sciences
Bachelor of Science in Chemistry

Language of instruction: Dutch

Programme version 9

1	General	Courses				150	credits
Nr 1	Course C003963	General Chemistry Klaartje De Buysser Department of Chemistry	CRDT 9	Ref	MT1 1	Session A:J	Study 240
2	C003964	Chemical Structures Zeger Hens Department of Chemistry	9		1	A:J	260
3	C004113	Mathematics: Basic Concepts David Vyncke Department of Mathematics, Computer Science and Statistics	6		1	A:1	180
4	C004114	Mathematics: Advanced Techniques Marnix Van Daele Department of Mathematics, Computer Science and Statistics	6		1	A:2	180
5	C003967	Physics: Mechanics Matthieu Boone Department of Physics and Astronomy	4		1	A:1	120
6	C003968	Physics: Waves, Optics and Thermodynamics Pieter Geiregat Department of Chemistry	5		1	A:2	135
7	C003080	Programming Peter Dawyndt Department of Mathematics, Computer Science and Statistics	5	UKV	1	A:1	150
8	C003944	General Biochemistry: Molecules of Life Bart Devreese Department of Biochemistry, Physiology and Microbiology	5		1	A:2	125
9	C004544	Chemistry in a Sustainable Society Frederic Lynen Department of Organic Chemistry	6		1	A:J	180
10	C003970	Experimentation in Chemistry 1 Klaartje De Buysser Department of Chemistry	5		1	A:J	125
11	C003971	Chemical Thermodynamics Zeger Hens Department of Chemistry	5		2	A:1	150
12	C003972	Electronic Structure Patrick Bultinck Department of Chemistry	5		2	A:1	135
13	C003973	Symmetry and Spectroscopy Patrick Bultinck Department of Chemistry	5		2	A:2	135
14	C003974	Inorganic Chemistry [en] Steven Nolan Department of Chemistry	3		2	A:2	90
15	C003975	Structural Analysis José Martins Department of Organic Chemistry	5		2	A:2	140
16	C003976	Analytical Chemistry: Introduction Peter Vandenabeele Department of Chemistry	4		2	A:1	120
17	C003977	Spectroscopic Methods of Analysis Laszlo Vincze Department of Chemistry	4		2	A:2	120
18	C003978	Organic Reactivity 1 Johan Winne Department of Organic Chemistry	4		2	A:1	120
19	C003979	Organic Reactivity 2 Johan Winne Department of Organic Chemistry	6		2	A:2	180
20	C000337	Statistics Lieven Clement Department of Mathematics, Computer Science and Statistics	4		2	A:1	120
21	C003980	Electromagnetism Pieter Geiregat Department of Chemistry	5		2	A:1	140
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22 C003981	Exploring, Evaluating and Exploiting Opportunities (Entrepreneurship) in Chemistry Bart Clarysse Department of Marketing, Innovation and Organisation	3	2	A:J	90
23 C003982	Experimentation in Chemistry 2 Johan Winne Department of Organic Chemistry	7	2	A:J	175
24 C003983	Electrochemistry and Chemical Kinetics Katrien Strubbe Department of Chemistry	4	3	A:1	115
25 C003984	Materials Chemistry Klaartje De Buysser Department of Chemistry	3	3	A:1	85
26 C003985	Electrochemical Analysis and Mass Spectrometry Mieke Adriaens Department of Chemistry	4	3	A:1	120
27 C003986	Analytical Separation Methods Frederic Lynen Department of Organic Chemistry	3	3	A:1	90
28 C003987	Organic Synthesis Bruno Linclau Department of Organic Chemistry	4	3	A:1	120
29 C003988	Polymer Chemistry Filip Du Prez Department of Organic Chemistry	4	3	A:1	105
30 C003989	Cellular Biochemistry Annemieke Madder Department of Organic Chemistry	3	3	A:1	90
31 C003990	Experimentation in Chemistry 3 Klaartje De Buysser Department of Chemistry	5	3	A:1	135

2 Minors 30 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 Research and Development

30 credits

Subscribe to no less than 24 and no more than 30 credit units from the following list, with 5 credit units with reference a.

Nr	Course		CRDT	Ref	MT1	Session	Study
1	C003991	Quality Assurance, Healthcare and Environmental Management in the Chemical Industry Kristof Van Hecke Department of Chemistry	5	а	3	A:2	130
2	C004005	Bachelor Project [en] Pascal Van Der Voort Department of Chemistry	15		3	A:2	405
3	C003992	Internship Research & Development [nl, en] Richard Hoogenboom Department of Organic Chemistry	21		3	A:2, B:2	540
4	C000833	Project Management Mario Vanhoucke Department of Business Informatics and Operations Management	4		3	A:2	120
5	F000551	Business Skills [en] Mieke Audenaert Department of Marketing, Innovation and Organisation	4		3	C:2	120

2.1.1 Elective Courses UGent

Subscribe to no more than 6 credit units from the study programmes of UGent, distributed over the first standard learning path as follows: no more than 6 credit units in year 3.

2.2 Minor Multidisciplinary Profile

30 credits

Subscribe to 15 credit units from no less than 1 and no more than 2 modules from the following list.

Ν		CRDT Re		Session	Study
1	C003993 Multidisciplinary Bachelor Project [en]	15	3	A:2	405
	Annemieke Madder Department of Organic Chemistry				

2.2.1 Elective Courses UGent

Subscribe to no more than 15 credit units to be chosen from other study programmes of the faculty of Science, faculty of Pharmaceutical Sciences or faculty of (Bioscience) Engineering allowing a focus on another discipline of natural sciences, distributed over the first standard learning path as follows: no more than 15 credit units in year 3.

2.2.2 Elective Courses of an University of the Flemish Community

Subscribe to no more than 15 credit units to be chosen from the study programme from another university of the Flemish Community or from the study programme from another university college allowing a focus on another discipline of natural sciences, distributed over the first standard learning path as follows: no more than 15 credit units in year 3.

2.3 Minor Education 30 credits

Subscribe to 30 credit units from the following list, with 9 credit units with reference a.

Nr Course	CRDT		Session	Study

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1	H002476	Powerful Learning Environments Bram De Wever Department of Educational Studies	6		3	A:1	180
2	H002573	Teaching Methodology: Chemistry Katrien Strubbe Department of Chemistry	9	а	3	J:J	270
3	H002608	Teaching Methodology: STEM Focus STEM Katrien Strubbe Department of Chemistry	9	а	3	J:J	270
4	C004005	Bachelor Project [en] Pascal Van Der Voort Department of Chemistry	15		3	A:2	405

2.4 Minor Internationalisation

30 credits

Subscribe to 30 credit units to be chosen from the study programmes of another European institute for higher education, including a Bachelor Project that will be completed abroad, distributed over the first standard learning path as follows: 30 credit units in year 3, and over the second standard learning path as follows: 30 credit units in year 6. Subject to approval by the faculty.

1			CRDT		Session	Study
1	C003619	Study Programme Abroad [en, nl]	30	3	A:2	900
		Anna Kaczmarek Department of Chemistry				

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 sh: Kroatian/Serbian zh: Chinese pl: Polish cs: Czech el: Greek fr: French nl: Dutch pt: Portuguese sl: Slovene

it: Italian ru: Russian da: Danish en: English no: Norwegian 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:

i: annually, from 2028-2029 c: annually, from 2026-2027 f: annually, from 2027-2028 a: bi-annually g: bi-annually, from 2027-2028 j: bi-annually, from 2028-2029 d: bi-annually, from 2026-2027 b: tri-annually h: tri-annually, from 2027-2028 e: tri-annually, from 2026-2027 k: tri-annually, from 2028-2029

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