GHENT UNIVERSITY

Study Programme

Academic year 2026-2027

Faculty of Sciences

Bachelor of Science in Chemistry

Language of instruction: Dutch

Programme version 10

1 General Courses — 150 credits

Nr	Course		CRDT	Ref	MT1	Session	Study
1	C001522	Chemistry I: Structure of Matter *Klaartje De Buysser -- Department of Chemistry*	4		1	B:1	110
2	C000424	Chemistry II: Changes in Matter *Isabel Van Driessche -- Department of Chemistry*	5		1	A:2	142
3	C003964	Chemical Structures *Zeger Hens -- Department of Chemistry*	9		1	A:J	260
4	C004113	Mathematics: Basic Concepts *Marnix Van Daele -- Department of Mathematics, Computer Science and Statistics*	6		1	A:1	180
5	C004114	Mathematics: Advanced Techniques *Marnix Van Daele -- Department of Mathematics, Computer Science and Statistics*	6		1	A:2	180
6	C003967	Physics: Mechanics *Matthieu Boone -- Department of Physics and Astronomy*	4		1	A:1	120
7	C003968	Physics: Waves, Optics and Thermodynamics *Pieter Geiregat -- Department of Chemistry*	5		1	A:2	135
8	C003080	Programming *Peter Dawyndt -- Department of Mathematics, Computer Science and Statistics*	5	UKV	1	A:1	150
9	C003944	General Biochemistry: Molecules of Life *Bart Devreese -- Department of Biochemistry, Physiology and Microbiology*	5		1	A:2	125
10	C004544	Chemistry in a Sustainable Society *Frederic Lynen -- Department of Organic Chemistry*	6		1	A:J	180
11	C003970	Experimentation in Chemistry 1 *Klaartje De Buysser -- Department of Chemistry*	5		1	A:J	125
12	C003971	Chemical Thermodynamics *Zeger Hens -- Department of Chemistry*	5		2	A:1	150
13	C003972	Electronic Structure *Patrick Bultinck -- Department of Chemistry*	5		2	A:1	135
14	C003973	Symmetry and Spectroscopy *Patrick Bultinck -- Department of Chemistry*	5		2	A:2	135
15	C003974	Inorganic Chemistry [en] *Catherine Cazin -- Department of Chemistry*	3		2	A:2	90
16	C003975	Structural Analysis *José Martins -- Department of Organic Chemistry*	5		2	A:2	140
17	C003976	Analytical Chemistry: Introduction *Peter Vandenabeele -- Department of Chemistry*	4		2	A:1	120
18	C003977	Spectroscopic Methods of Analysis *Laszlo Vincze -- Department of Chemistry*	4		2	A:2	120
19	C003978	Organic Reactivity 1 *Johan Winne -- Department of Organic Chemistry*	4		2	A:1	120
20	C003979	Organic Reactivity 2 *Johan Winne -- Department of Organic Chemistry*	6		2	A:2	180

21	C000337	Statistics *Lieven Clement -- Department of Mathematics, Computer Science and Statistics*	4	2	A:1	120
22	C003980	Electromagnetism *Pieter Geiregat -- Department of Chemistry*	5	2	A:1	140
23	C003981	Exploring, Evaluating and Exploiting Opportunities (Entrepreneurship) in Chemistry *Bart Clarysse -- Department of Marketing, Innovation and Organisation*	3	2	A:J	90
24	C003982	Experimentation in Chemistry 2 *Johan Winne -- Department of Organic Chemistry*	7	2	A:J	175
25	C003983	Electrochemistry and Chemical Kinetics *Katrien Strubbe -- Department of Chemistry*	4	3	A:1	115
26	C003984	Materials Chemistry *Klaartje De Buysser -- Department of Chemistry*	3	3	A:1	85
27	C003985	Electrochemical Analysis and Mass Spectrometry *Mieke Adriaens -- Department of Chemistry*	4	3	A:1	120
28	C003986	Analytical Separation Methods *Frederic Lynen -- Department of Organic Chemistry*	3	3	A:1	90
29	C003987	Organic Synthesis *Bruno Linclau -- Department of Organic Chemistry*	4	3	A:1	120
30	C003988	Polymer Chemistry *Filip Du Prez -- Department of Organic Chemistry*	4	3	A:1	105
31	C003989	Cellular Biochemistry *Annemieke Madder -- Department of Organic Chemistry*	3	3	A:1	90
32	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	a	3	A:2	130
2	C004005	Bachelor Project [en] *Pascal Van Der Voort -- Department of Chemistry*	15		3	A:2	405
3	C000833	Project Management *Mario Vanhoucke -- Department of Business Informatics and Operations Management*	4		3	A:2	120
4	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.

Nr	Course		CRDT	Ref	MT1	Session	Study
1	C003993	Multidisciplinary Bachelor Project [en] *Annemieke Madder -- Department of Organic Chemistry*	15		3	A:2	405

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	Ref	MT1	Session	Study
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	a	3	J:J	270
3	H002608	Teaching Methodology: STEM Focus STEM *Katrien Strubbe -- Department of Chemistry*	9	a	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.

Nr	Course		CRDT	Ref	MT1	Session	Study
1	C003619	Study Programme Abroad [en] *Anna Kaczmarek -- Department of Chemistry*	30		3	A:2	900

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 2027-2028	f: annually, from 2028-2029	i: annually, from 2029-2030
b: tri-annually	d: bi-annually, from 2027-2028	g: bi-annually, from 2028-2029	j: bi-annually, from 2029-2030
	e: tri-annually, from 2027-2028	h: tri-annually, from 2028-2029	k: tri-annually, from 2029-2030