

Study Programme

Academic year 2025-2026

Master of Science in Chemistry -- (Bio)Organic and Polymer Chemistry

Language of instruction: English

1 Course	s Related to the Main Subject			108	credits
1.1 Genera	al Courses			30	credits
Nr Course		CRDT F	Ref MT1	Session	Study
1 C004125	Advanced Organic Chemistry Annemieke Madder Department of Organic Chemistry	6	1	A:1	180
2 C004126	Advanced Macromolecular Chemistry Filip Du Prez Department of Organic Chemistry	6	1	A:1	180
3 C004127	Molecular Structure Analysis Kristof Van Hecke Department of Chemistry	6	1	A:1	150
4 C004128	Molecular Physical Chemistry Zeger Hens Department of Chemistry	6	1	A:1	180
5 C004129	Integrated Problems in Organic and Polymer Chemistry Johan Winne Department of Organic Chemistry	6	1	A:1	180
1.2 Specia	lization Courses			12	credits
	2 credit units from the following list, distributed over the first standard leavoval by the faculty.	arning path as follow	vs: 12 credit units	in year 1.	
Nr Course		CRDT F	Ref MT1	Session	Study

Nr	Course		CRDT	Ref MT1	Session	Study
1	C004131	Organic Separation Techniques and Mass Spectrometry Frederic Lynen Department of Organic Chemistry	4	1	A:2	120
2	C004132	Natural Product Chemistry Vrije Universiteit Brussel, Ulrich Hennecke	4	1	A:2	120
3	C004133	Medicinal Chemistry Vrije Universiteit Brussel, Steven Ballet	4	1	A:2	120
4	C004134	Asymmetric Synthesis Vrije Universiteit Brussel, Ulrich Hennecke	4	1	A:2	105
5	C004135	Chemical Biology Simon Devos Department of Biomolecular Medicine	4	1	A:2	120
6	C004458	Enzyme-Catalyzed Organic Synthesis: Principles and Applications	4	1	A:2	120
7	C004137	Synthetic Methods and Strategies Johan Winne Department of Organic Chemistry	4	1	A:2	105
8	C004138	Homogeneous Catalysis Catherine Cazin Department of Chemistry	4	1	A:2	100
9	C004139	Polymer Materials: Biomedical and Sustainable Aspects Peter Dubruel Department of Organic Chemistry	4	1	A:2	100
1.	3 Scienti	fic and Professional Skills			66	credits

Subscribe to 66 credit units from the following list, with 30 credit units with reference a.

Nr	Course		CRDT	Ref	MT1	Session	Study
1	C004165	Professional Skills of the Sustainable Chemist Sandra Van Vlierberghe Department of Organic Chemistry	6		1	A:J	150
2	C004166	Master Thesis, Research Plan Filip Du Prez Department of Organic Chemistry	9		1	A:2	270
3	C004167	Master Thesis, Research Project Laszlo Vincze Department of Chemistry	21		2	A:1	630

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4	C004168	Industrial Internship	30	а	2	A:2	900
5	C004191	Richard Hoogenboom Department of Organic Chemistry Academic Internship	30	а	2	A:2	900
		Steven Nolan Department of Chemistry					

2 Elective Courses 12 credits

Subscribe to 12 credit units from no less than 1 and no more than 4 modules from the following list. Subject to approval by the faculty.

2.1 In-depth Chemistry

Subscribe to no more than 4 credit units from the specialization courses of the different main subject of the Master in Chemistry.

2.2 Industry and Management

Subscribe to no more than 12 credit units from the following list.

	Course	Thore than 12 credit units from the following list.	CRDT	Ref MT1	Session	Study
1	E076460	Dare to Venture	4	1	A:2	120
2	E076471	Dare to Start Wouter Haerick Department of Information Technology	3	1	A:2	90
3	F000845	Business Administration [nl] Mirjam Knockaert Department of Marketing, Innovation and Organisation	4	1	A:2	120
4	F000551	Business Skills Mieke Audenaert Department of Marketing, Innovation and Organisation	4	1	C:2	120
5	C000833	Project Management [nl] Mario Vanhoucke Department of Business Informatics and Operations Management	4	1	A:2	120
6	F000855	Organization Theory Gosia Kozusznik Department of Marketing, Innovation and Organisation	4	1	A:2	120
7	F001010	Financial Markets and Institutions [nl] Rudi Vander Vennet Department of Economics	5	1	A:2	150
8	F000752	Environmental Economics and Policy [nl] Brent Bleys Department of Economics	4	1	B:2	120
9	F000859	Corporate Social Responsibility [nl] Saskia Crucke Department of Marketing, Innovation and Organisation	3	1	A:2	90
10	F000892	Innovation Management Katrien Verleye Department of Marketing, Innovation and Organisation	3	1	A:2	90
11	E039060	Sustainable Energy and Rational Use of Energy Jeroen Beeckman Department of Electronics and Information Systems	4	1	A:2	120
12	F000758	Economics [nl] Bruno Merlevede Department of Economics	5	2	A:1	150
13	E076431	Introduction to Entrepreneurship	3	2	A:1	90
14	F000768	Marketing Management [nl] Maggie Geuens Department of Marketing, Innovation and Organisation	6	2	A:1	180
15	F001009	Business Cycles and Growth [nl] Freddy Heylen Department of Economics	5	2	A:1	150
16	F001008	Markets and Prices [nl] Dirk Van de gaer Department of Economics	5	2	A:1	150
17	E065460	Rational Use of Materials Tom Depover Department of Materials, Textiles and Chemical Engineering	5	2	A:1	150
18	C002275	Environmental Law [nl] Hendrik Schoukens Department of European, Public and International Law	5	2	A:1	125
19	1001571	Environmental Legislation Hendrik Schoukens Department of European, Public and International Law	3	2	A:1	75

2.3 Scientific broadening

Subscribe to no more than 12 credit units from the following list.

Nr	Course		CRDT	Ref	MT1	Session	Study
1	C004169	Advanced Topics in Chemistry Klaartje De Buysser Department of Chemistry	3		2	A:1	90
2	C004192	Green Chemistry	3		2		75
3	C004193	History of Chemistry [nl] Mieke Adriaens Department of Chemistry	3		2	A:2 ^a	75

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4	C004009	History and Philosophy of Sciences [nl] Maarten Van Dyck Department of Philosophy and Moral Sciences	3	2	B:2	90
5	C004194	Chemical Laboratory Skills [nl] Katrien Strubbe Department of Chemistry	4	2	A:J	115
6	C004089	International Course	3	2	A:J	90

2.4 Elective Courses UGent and other Universities

Subscribe to no more than 12 credit units from the study programmes of UGent including the <u>Ghent University elective courses</u> or from other universities of the Flemish Community, or (online) courses from <u>Erasmus+ partner universities</u>.

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

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

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