

Study Programme

Academic year 2024-2025

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

Language of instruction: English

1 Course	es Related to the Main Subject			108	credits
1.1 Gene	ral Courses			30	credits
Nr Course		CRDT R	ef MT1	Session	Study
1 C00412	5 Advanced Organic Chemistry Annemieke Madder Department of Organic Chemistry	6	1	A:1	180
2 C00412	Advanced Macromolecular Chemistry Filip Du Prez Department of Organic Chemistry	6	1	A:1	180
3 C00412	 Molecular Structure Analysis Frederic Lynen Department of Organic Chemistry 	6	1	A:1	150
1 C00412	Molecular Physical Chemistry Zeger Hens Department of Chemistry	6	1	A:1	180
C004129	Integrated Problems in Organic and Polymer Chemistry Johan Winne Department of Organic Chemistry	6	1	A:1	180
1.2 Speci	alization Courses			12	credits
Subject to app	12 credit units from the following list, distributed over the first standard learning poroval by the faculty.	ath as follows:	12 credit units i	in year 1.	
Vr Course			ef MT1	Session	Study
C00413	Organic Separation Techniques and Mass Spectrometry Frederic Lynen Department of Organic Chemistry	4	1	A:2	120
C00413	Natural Product Chemistry Vrije Universiteit Brussel, Ulrich Hennecke	4	1	A:2	120
C00413	Medicinal Chemistry Vrije Universiteit Brussel, Steven Ballet	4	1	A:2	120
C00413	Asymmetric Synthesis Vrije Universiteit Brussel, Ulrich Hennecke	4	1	A:2	105
C00413	5 Chemical Biology Annemieke Madder Department of Organic Chemistry	4	1	A:2	120
C00445	B Enzyme-Catalyzed Organic Synthesis: Principles and Applications Johan Van der Eycken Ghent University	4	1	A:2	120
C00413	Synthetic Methods and Strategies Johan Winne Department of Organic Chemistry	4	1	A:2	105
	B Homogeneous Catalysis	4	1	A:2	100

1.3 Scientific and Professional Skills

66 credits

100

A:2

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

Peter Dubruel -- Department of Organic Chemistry

Catherine Cazin -- Department of Chemistry

C004139 Polymer Materials: Biomedical and Sustainable Aspects

			ADD			
Nr	Course		CRD1 Re	et MT1	Session	Study
1	C004165	Professional Skills of the Sustainable Chemist Catherine Cazin Department of Chemistry	6	1	A:J	150
2	C004166	Master Thesis, Research Plan Laszlo Vincze Department of Chemistry	9	1	A:2	270

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3	C004167	Master Thesis, Research Project Filip Du Prez Department of Organic Chemistry	21		2	A:1	630
4	C004168	Industrial Internship Richard Hoogenboom Department of Organic Chemistry	30	а	2	A:2	900
5	C004191	Academic Internship Steven Nolan Department of Chemistry	30	а	2	A:2	900

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.

Nr Course	o more than 12 ground arms from the following not.	CRDT F	Ref MT1	Session	Study
1 E076460	Dare to Venture Johan Verrue Department of Marketing, Innovation and Organisation	4	1	A:2	120
2 E076471	Dare to Start Frank Gielen 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 Mar	4 nagement	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 Petra Andries Department of Marketing, Innovation and Organisation	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	3	2	A:1	90
		Klaartje De Buysser Department of Chemistry				

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2	C004192	Green Chemistry	3	2		75
3	C004193	History of Chemistry [nl] Mieke Adriaens Department of Chemistry	3	2	(A:2) ^d	75
4	C004009	History and Philosophy of Sciences [nl] Maarten Van Dyck Department of Philosophy and Moral Sciences	3	2	A:1	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 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 2025-2026 f: annually, from 2026-2027 i: annually, from 2027-2028 g: bi-annually, from 2026-2027 g: bi-annually, from 2026-2027 g: bi-annually, from 2027-2028 e: tri-annually, from 2025-2026 h: tri-annually, from 2026-2027 k: tri-annually, from 2027-2028

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