

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

Language of instruction: English

Programme version 3

1 Courses Related to the Main Subject 108 credits

1.1 General Courses 30 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	C004125 Advanced Organic Chemistry <i>Annemieke Madder -- Department of Organic Chemistry</i> Indicative price: € 0	6		1	A:1	180
2	C004126 Advanced Macromolecular Chemistry <i>Filip Du Prez -- Department of Organic Chemistry</i> Indicative price: € 0	6		1	A:1	180
3	C004127 Molecular Structure Analysis <i>Frederic Lynen -- Department of Organic Chemistry</i> Indicative price: € 0	6		1	A:1	150
4	C004128 Molecular Physical Chemistry <i>Zeger Hens -- Department of Chemistry</i> Indicative price: € 15	6		1	A:1	180
5	C004129 Integrated Problems in Organic and Polymer Chemistry <i>Johan Winne -- Department of Organic Chemistry</i> Indicative price: € 0	6		1	A:1	180

1.2 Specialization Courses 12 credits

Subscribe to 12 credit units from the following list, distributed over the first standard learning path as follows: 12 credit units in year 1.
Subject to approval by the faculty.

Nr	Course	CRDT	Ref	MT1	Session	Study
1	C004131 Organic Separation Techniques and Mass Spectrometry <i>Frederic Lynen -- Department of Organic Chemistry</i> Indicative price: € 0	4		1	A:2	120
2	C004132 Natural Product Chemistry <i>Vrije Universiteit Brussel, Ulrich Hennecke</i> Indicative price: unknown	4		1	A:2	120
3	C004133 Medicinal Chemistry <i>Vrije Universiteit Brussel, Steven Ballet</i> Indicative price: unknown	4		1	A:2	120
4	C004134 Asymmetric Synthesis <i>Vrije Universiteit Brussel, Ulrich Hennecke</i> Indicative price: unknown	4		1	A:2	105
5	C004135 Chemical Biology <i>Annemieke Madder -- Department of Organic Chemistry</i> Indicative price: € 0	4		1	A:2	120
6	C004458 Enzyme-Catalyzed Organic Synthesis: Principles and Applications <i>Johan Van der Eycken -- Department of Organic Chemistry</i> Indicative price: € 0	4		1	A:2	120
7	C004137 Synthetic Methods and Strategies <i>Johan Winne -- Department of Organic Chemistry</i> Indicative price: € 0	4		1	A:2	105

8	C004138	Homogeneous Catalysis <i>Catherine Cazin -- Department of Chemistry</i> Indicative price: € 0	4	1	A:2	100
9	C004139	Polymer Materials: Biomedical and Sustainable Aspects <i>Peter Dubruel -- Department of Organic Chemistry</i> Indicative price: € 0	4	1	A:2	100

1.3 Scientific 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 <i>Catherine Cazin -- Department of Chemistry</i> Indicative price: € 0	6		1	A:J	150
2	C004166 Master Thesis, Research Plan <i>Laszlo Vincze -- Department of Chemistry</i> Indicative price: unknown	9		1	A:2	270
3	C004167 Master Thesis, Research Project <i>Filip Du Prez -- Department of Organic Chemistry</i> Indicative price: unknown	21		2	A:1	630
4	C004168 Industrial Internship <i>Richard Hoogenboom -- Department of Organic Chemistry</i> Indicative price: unknown	30	a	2	A:2	900
5	C004191 Academic Internship <i>Steven Nolan -- Department of Chemistry</i> Indicative price: unknown	30	a	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	CRDT	Ref	MT1	Session	Study
1	E076460 Dare to Venture <i>Johan Verrue -- Department of Marketing, Innovation and Organisation</i> Indicative price: unknown	4		1	A:2	120
2	E076471 Dare to Start <i>Wouter Haerick -- Department of Information Technology</i> Indicative price: unknown	3		1	A:2	90
3	F000845 Business Administration [nl] <i>Mirjam Knockaert -- Department of Marketing, Innovation and Organisation</i> Indicative price: € 35	4		1	A:2	120
4	F000551 Business Skills <i>Mieke Audenaert -- Department of Marketing, Innovation and Organisation</i> Indicative price: € 46	4		1	C:2	120
5	C000833 Project Management [nl] <i>Mario Vanhoucke -- Department of Business Informatics and Operations Management</i> Indicative price: € 75	4		1	A:2	120
6	F000855 Organization Theory <i>Gosia Kozusznik -- Department of Marketing, Innovation and Organisation</i> Indicative price: € 46	4		1	A:2	120
7	F001010 Financial Markets and Institutions [nl] <i>Rudi Vander Vennet -- Department of Economics</i> Indicative price: € 0	5		1	A:2	150
8	F000752 Environmental Economics and Policy [nl] <i>Brent Bleys -- Department of Economics</i> Indicative price: € 55	4		1	B:2	120
9	F000859 Corporate Social Responsibility [nl] <i>Saskia Crucke -- Department of Marketing, Innovation and Organisation</i> Indicative price: € 0	3		1	A:2	90

10	F000892	Innovation Management <i>Katrien Verleye -- Department of Marketing, Innovation and Organisation</i> Indicative price: € 55	3	1	A:2	90
11	E039060	Sustainable Energy and Rational Use of Energy <i>Jeroen Beeckman -- Department of Electronics and Information Systems</i> Indicative price: € 7	4	1	A:2	120
12	F000758	Economics [nl] <i>Bruno Merlevede -- Department of Economics</i> Indicative price: € 50	5	2	A:1	150
13	E076431	Introduction to Entrepreneurship <i>Petra Andries -- Department of Marketing, Innovation and Organisation</i> Indicative price: € 33	3	2	A:1	90
14	F000768	Marketing Management [nl] <i>Maggie Geuens -- Department of Marketing, Innovation and Organisation</i> Indicative price: € 40	6	2	A:1	180
15	F001009	Business Cycles and Growth [nl] <i>Freddy Heylen -- Department of Economics</i> Indicative price: € 65	5	2	A:1	150
16	F001008	Markets and Prices [nl] <i>Dirk Van de gaer -- Department of Economics</i> Indicative price: € 50	5	2	A:1	150
17	E065460	Rational Use of Materials <i>Tom Depover -- Department of Materials, Textiles and Chemical Engineering</i> Indicative price: unknown	5	2	A:1	150
18	C002275	Environmental Law [nl] <i>Hendrik Schoukens -- Department of European, Public and International Law</i> Indicative price: € 0	5	2	A:1	125
19	I001571	Environmental Legislation <i>Hendrik Schoukens -- Department of European, Public and International Law</i> Indicative price: unknown	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 <i>Klaartje De Buysser -- Department of Chemistry</i> Indicative price: unknown	3		2	A:1	90
2	C004192 Green Chemistry Indicative price: € 0	3		2		75
3	C004193 History of Chemistry [nl] <i>Mieke Adriaens -- Department of Chemistry</i> Indicative price: € 0	3		2	(A:2) ^d	75
4	C004009 History and Philosophy of Sciences [nl] <i>Maarten Van Dyck -- Department of Philosophy and Moral Sciences</i> Indicative price: € 0	3		2	A:1 ^a	90
5	C004194 Chemical Laboratory Skills [nl] <i>Katrien Strubbe -- Department of Chemistry</i> Indicative price: unknown	4		2	A:J	115
6	C004089 International Course Indicative price: unknown	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 \[Ghent University elective courses\]\(#\) or from other universities of the Flemish Community, or \(online\) courses from \[Erasmus+ partner universities\]\(#\).](#)

Programme related study costs

Type: Laptop

Name: laptop
Indicative price: € 750
Optional: No
Fulltime standard learning track year: 1
Available through Student Association : No
Usability and Lifetime within the Course Unit : intensive
Usability and Lifetime within the Study Programme : intensive
Usability and Lifetime after the Study Programme : regularly

Type: Lab Material

Name: labcoat + safety goggles
Indicative price: € 55
Optional: No
Fulltime standard learning track year: 1
Available through Student Association : No
Usability and Lifetime within the Course Unit : intensive
Usability and Lifetime within the Study Programme : intensive
Usability and Lifetime after the Study Programme : intensive

Type: Excursion

Name: travel cost to VUB
Indicative price: € 120
Optional: No
Fulltime standard learning track year: 1
Additional information: Because this program is an alliance with the VUB, travel costs to the VUB need to be taken in consideration

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 2025-2026	f: annually, from 2026-2027	i: annually, from 2027-2028
b: tri-annually	d: bi-annually, from 2025-2026	g: bi-annually, from 2026-2027	j: bi-annually, from 2027-2028
	e: tri-annually, from 2025-2026	h: tri-annually, from 2026-2027	k: tri-annually, from 2027-2028

Learning materials

The prices stated are indicative and subject to fluctuations.
The list of learning materials per course unit can be found in the course sheets.