

Study Programme

Academic year 2024-2025

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 R	ef MT1	Session	Study		
1 C004125 Advanced Organic Chemistry Annemieke Madder Department of Organic Chemistry Indicative price: € 0	6	1	A:1	180		
2 C004126 Advanced Macromolecular Chemistry Filip Du Prez Department of Organic Chemistry Indicative price: € 0	6	1	A:1	180		
 C004127 Molecular Structure Analysis N. N. Indicative price: € 0 	6	1	A:1	150		
4 C004128 Molecular Physical Chemistry Zeger Hens Department of Chemistry Indicative price: € 15	6	1	A:1	180		
5 C004129 Integrated Problems in Organic and Polymer Chemistry Johan Winne Department of Organic Chemistry Indicative price: € 0	6	1	A:1	180		
1.2 Specialization Courses 12 cred						
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 R	of MT1	Session	Study		

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

30-06-2024 20:19 p 1

8	C004138	Homogeneous Catalysis Catherine Cazin Department of Chemistry Indicative price: € 0	4	1	A:2	100
9	C004139	Polymer Materials: Biomedical and Sustainable Aspects Peter Dubruel Department of Organic Chemistry 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 Catherine Cazin Department of Chemistry Indicative price: € 0	6		1	A:J	150
2	C004166	Master Thesis, Research Plan Laszlo Vincze Department of Chemistry Indicative price: unknown	9		1	A:2	270
3	C004167	Master Thesis, Research Project Filip Du Prez Department of Organic Chemistry Indicative price: unknown	21		2	A:1	630
4	C004168	Industrial Internship Richard Hoogenboom Department of Organic Chemistry Indicative price: unknown	30	а	2	A:2	900
5	C004191	Academic Internship Steven Nolan Department of Chemistry Indicative price: unknown	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		CRDT F	Ref MT1	Session	Study
1	E076460	Dare to Venture Johan Verrue Department of Marketing, Innovation and Organisation Indicative price: unknown	4	1	A:2	120
2	E076471	Dare to Start Frank Gielen Department of Information Technology Indicative price: unknown	3	1	A:2	90
3	F000845	Business Administration [nl] Mirjam Knockaert Department of Marketing, Innovation and Organisation Indicative price: € 35	4	1	A:2	120
ļ	F000551	Business Skills Mieke Audenaert Department of Marketing, Innovation and Organisation Indicative price: € 46	4	1	C:2	120
5	C000833	Project Management [nl] Mario Vanhoucke Department of Business Informatics and Operations Man Indicative price: € 75	4 agement	1	A:2	120
6	F000855	Organization Theory Gosia Kozusznik Department of Marketing, Innovation and Organisation Indicative price: € 46	4	1	A:2	120
7	F001010	Financial Markets and Institutions [nl] Rudi Vander Vennet Department of Economics Indicative price: € 0	5	1	A:2	150
8	F000752	Environmental Economics and Policy [nl] Brent Bleys Department of Economics Indicative price: € 55	4	1	B:2	120
9	F000859	Corporate Social Responsibility [nl] Saskia Crucke Department of Marketing, Innovation and Organisation Indicative price: € 0	3	1	A:2	90
30	-06-2024	20:19				p 2
						'

10 F000892	Innovation Management Katrien Verleye Department of Marketing, Innovation and Organisation Indicative price: € 55	3	1	A:2	90
11 E039060	Sustainable Energy and Rational Use of Energy Jeroen Beeckman Department of Electronics and Information Systems Indicative price : € 7	4	1	A:2	120
12 F000758	Economics [nl] Bruno Merlevede Department of Economics Indicative price: € 50	5	2	A:1	150
13 E076431	Introduction to Entrepreneurship Petra Andries Department of Marketing, Innovation and Organisation Indicative price: € 33	3	2	A:1	90
14 F000768	Marketing Management [nl] Maggie Geuens Department of Marketing, Innovation and Organisation Indicative price: € 40	6	2	A:1	180
15 F001009	Business Cycles and Growth [nl] Freddy Heylen Department of Economics Indicative price: € 65	5	2	A:1	150
16 F001008	Markets and Prices [nI] Dirk Van de gaer Department of Economics Indicative price: € 50	5	2	A:1	150
17 E065460	Rational Use of Materials Tom Depover Department of Materials, Textiles and Chemical Engineering Indicative price: unknown	5	2	A:1	150
18 C002275	Environmental Law [nl] Hendrik Schoukens Department of European, Public and International Law Indicative price: € 0	5	2	A:1	125
19 1001571	Environmental Legislation Hendrik Schoukens Department of European, Public and International Law Indicative price: unknown	3	2	A:1	75
2.3 Scient	ific broadoning				

2.3 Scientific broadening

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

Nr	Course		CRDT R	ef MT1	Session	Study
1	C004169	Advanced Topics in Chemistry Klaartje De Buysser Department of Chemistry Indicative price: unknown	3	2	A:1	90
2	C004192	Green Chemistry Indicative price: € 0	3	2		75
3	C004193	History of Chemistry [nl] Mieke Adriaens Department of Chemistry Indicative price: € 0	3	2	(A:2) ^d	75
4	C004009	History and Philosophy of Sciences [nl] Maarten Van Dyck Department of Philosophy and Moral Sciences Indicative price: € 0	3	2	A:1	90
5	C004194	Chemical Laboratory Skills [nl] Katrien Strubbe Department of Chemistry 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 <u>Ghent University elective courses</u> or from other universities of the Flemish Community, or (online) courses from <u>Erasmus+ partner universities</u>.

30-06-2024 20:19 p 3

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

 $Additional\ information: Because\ this\ program\ is\ an\ alliance\ with\ the\ VUB,\ travel\ costs\ to\ the\ VUB\ need\ to\ be\ taken\ in$

condsideration

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 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.

30-06-2024 20:19 p 4