

Study Programme

Academic year 2021-2022

Faculty of Sciences

Exchange Programme in Chemistry (master's level)

Language of instruction: English

Programme version 5

General Courses

The exchange programme contains a preferred list of English courses taught at UGent of the Master of Science in Chemistry. If you want to choose another course of the main programme, please contact the departmental Erasmus coordinator.

Tips for completing your Learning Agreement:

- Please check the <u>departmental rules</u> for incoming students.
- A minimum of 20 ECTS credits per semester is required, of which 15 from the chemistry programme.
- Up to 25% of the courses can be taken from a different programme.
- Research projects are possible provided some criteria are met. Each research project must be worth a minimum of 15 ECTS credits. We strictly require that a research promotor (professor) has been found well ahead of your arrival and that a subject has been identified. Under no circumstances can research projects still be arranged after arrival. Every research project will be appropriately defended and marked in a (semi) public defense.

Nr	Course		CRDT Ref	MT1	Session	Study
1	C004125	Advanced Organic Chemistry Annemieke Madder Department of Organic Chemistry	6		A:1	180
2	C004126	Advanced Macromolecular Chemistry Filip Du Prez Department of Organic Chemistry	6		A:1	180
3	C004127	Molecular Structure Analysis José Martins Department of Organic Chemistry	6		A:1	150
4	C004128	Molecular Physical Chemistry Zeger Hens Department of Chemistry	6		A:1	180
5	C004129	Integrated Problems in Organic and Polymer Chemistry Johan Winne Department of Organic Chemistry	6		A:1	180
6	C004130	Foundations of NMR and XRD for Structure Analysis José Martins Department of Organic Chemistry	4		A:2	120
7	C004131	Organic Separation Techniques and Mass Spectrometry Frederic Lynen Department of Organic Chemistry	4		A:2	120
8	C004135	Chemical Biology Simon Devos Department of Biochemistry, Physiology and Microbiology	4		A:2	120
9	C004136	Asymmetric and Bioorganic Chemistry Johan Van der Eycken Department of Organic Chemistry	4		(A:2) ^d	120
10	C004137	Synthetic Methods and Strategies Johan Winne Department of Organic Chemistry	4		A:2	105
11	C004138	Homogeneous Catalysis Catherine Cazin Department of Chemistry	4		A:2	100
12	C004139	Polymer Materials: Biomedical and Sustainable Aspects Peter Dubruel Department of Organic Chemistry	4		A:2	100
13	C004140	Nanomaterials Chemistry Pascal Van Der Voort Department of Chemistry	6		A:1	180
14	C004141	Materials Physics Zeger Hens Department of Chemistry	6		A:1	180
15	C004142	Surface Topology, Internal Structure and Composition Mieke Adriaens Department of Chemistry	6		A:1	180
16	C004143	Integrated Problems in Materials and Nanochemistry Klaartje De Buysser Department of Chemistry	6		A:1	180
17	C004144	Topics in Nanoscience Pieter Geiregat Department of Chemistry	4		A:2	120
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18 C004145	Functional Ceramics Klaartje De Buysser Department of Chemistry	4	A:2	110
19 C004146	The f-Elements Rik Van Deun Department of Chemistry	4	A:2	100
20 C004147	Advanced Quantum Chemistry Patrick Bultinck Department of Chemistry	4	A:2	115
21 C004148	Computational Quantum Chemistry Patrick Bultinck Department of Chemistry	8	A:2	210
22 C004149	Light and Matter Pieter Geiregat Department of Chemistry	4	A:2	120
23 C004150	Bioinorganic Chemistry Kristof Van Hecke Department of Chemistry	4	A:2	120
24 C004151	Heterogeneous Catalysis Pascal Van Der Voort Department of Chemistry	4	A:2	120
25 C004152	Structure Analysis by X-ray Diffraction Klaartje De Buysser Department of Chemistry	4	A:2	120
26 C004153	Chemometrics Laszlo Vincze Department of Chemistry	3	A:1	85
27 C004154	Applications in Analytical and Environmental Sciences Anna Kaczmarek Department of Chemistry	6	A:1	170
28 C004155	Analytical Methods for Material Characterization Mieke Adriaens Department of Chemistry	9	A:1	270
29 C004157	Principle and Applications of Stable Isotope Analysis Frank Vanhaecke Department of Chemistry	3	A:2	90
30 C004159	Advanced X-ray Spectroscopy Laszlo Vincze Department of Chemistry	3	A:2	90
31 C004160	Analytical Raman Spectroscopy Anastasia Rousaki Department of Chemistry	3	A:2	75
32 C004169	Advanced Topics in Chemistry Klaartje De Buysser Department of Chemistry	3	A:1	90
33 C003242	Research Project	0	A:1, C:J, B:2	0

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 2022-2023 f: annually, from 2023-2024 i: annually, from 2024-2025 g: bi-annually, from 2023-2024 j: bi-annually, from 2024-2025 e: tri-annually, from 2022-2023 h: tri-annually, from 2023-2024 k: tri-annually, from 2024-2025

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