

Faculty of Sciences

Exchange Programme in Chemistry (master's level)

Language of instruction: English

Programme version 5

1 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 [departmental rules](#) 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 Dubrueel -- 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 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 2022-2023 | f: annually, from 2023-2024 | i: annually, from 2024-2025 |
| b: tri-annually | d: bi-annually, from 2022-2023 | 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 |