

Study Programme

Academic year 2024-2025

Faculty of Bioscience Engineering
Master of Science in Bioscience Engineering: Chemistry and Bioprocess Technology

Language of instruction: Dutch

Programme version 14

emical Structure Determination [en] ristian Stevens Department of Green Chemistry and Technology	RDT R 4	ef MT1 1	Session A:1	Study 120
Illoid and Surface Chemistry ul Van der Meeren Department of Green Chemistry and Technology	5	1	A:2	150
lustrial Biotechnology [en] n Soetaert Department of Biotechnology	5	1	A:1	150
alytical Inorganic Chemistry: Instrumental Techniques s Du Laing Department of Green Chemistry and Technology	3	1	A:1	90
ocess Engineering 2 [en] ul Van der Meeren Department of Green Chemistry and Technology	5	1	A:1	150
ermochemical Conversion of Biomass derik Ronsse Department of Green Chemistry and Technology	4	1	A:2	120
o-organic Chemistry [en] ristian Stevens Department of Green Chemistry and Technology	4	1	A:1	120
een Chemistry of Renewable Resources [en] en Mangelinckx Department of Green Chemistry and Technology	4	1	A:1	120
ocess Control [en] ul Van Liedekerke Department of Data Analysis and Mathematical Modelling	5	1	A:2	150
ean Technology [en] phie Huysveld Department of Green Chemistry and Technology	5	1	A:1	150
egrated Practical Classes in Advanced Organic Chemistry ristian Stevens Department of Green Chemistry and Technology	5	1	A:2	150
nnagement for Engineers [en] oen Buysse Department of Agricultural Economics	4	2	A:1	120
ality Management and Risk Analysis [en] sbeth Jacxsens Department of Food Technology, Safety and Health	5	2	A:2	150
	distian Stevens Department of Green Chemistry and Technology Illoid and Surface Chemistry Illoid and Technology Illoid Inorganic Chemistry: Instrumental Techniques Illoid Inorganic Chemistry: Instrumental Technology Illoid Inorganic Chemistry and Technology Illoid Inorganic Chemistry and Technology Illoid Inorganic Chemistry Instrument of Green Chemistry and Technology Illoid Inorganic Chemistry Instrument of Green Chemistry and Technology Indicated Stevens Department of Green Chemistry and Technology Instrumental Inorganic Chemistry Instrumental Inorganic Inorganic Chemistry Instrumental Inorganic Inorganic Chemistry Instrumental Inorganic Inorganic Inorganic Chemistry Instrumental Inorganic Inor	distian Stevens Department of Green Chemistry and Technology Illoid and Surface Chemistry Illoid and Technology Illoid and Surface Chemistry Illoid a	Illoid and Surface Chemistry 5 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Iloid and Surface Chemistry Iloid and Surface Chemistry: Instrumental Technology Iloid and Surface Chemistry: Instrumental Technology Iloid and Surface Chemistry: Instrumental Technology Iloid and Surface Chemistry and Technology Iloid and Surface Chemistry Il

2 Elective Courses 32 credits

Subscribe to 32 credit units from no less than 1 and no more than 6 module(s) from the following list. Subject to approval by the faculty.

Full-time standard learning track:

Students can choose which of the elective course units are taken in the first respectively the second standard learning track year (unless otherwise specified); in combination with the general course units, students take a total of 54 to 66 credits per standard learning track year. The sum of the total number of credits taken up over the 2 standard learning track years must be 120 credits.

2.1 Product Development and Renewable Resources

Nr	Course		CRDT Ref MT1	Session Study
1	1002753	Chemistry of Natural Products [en] Sven Mangelinckx Department of Green Chemistry and Technology	5	A:1 150
2	E071341	Molecular Modelling of Industrial Processes [en] Veronique Van Speybroeck Department of Applied Physics	6	A:2 180
3	1002734	Crop Protection Chemistry Pieter Spanoghe Department of Plants and Crops	5	A:2 150

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4	C004125	Advanced Organic Chemistry [en] Annemieke Madder Department of Organic Chemistry	6			A:1	180
5	C004151	Heterogeneous Catalysis [en] Pascal Van Der Voort Department of Chemistry	4			A:2	120
2.:	2 Chemic	cal and/or Bioprocess Technology					
Nr 1	Course 1002631	Industrial Fermentation Processes and Downstream Processing [en] Wim Soetaert Department of Biotechnology	CRDT 5	Ref	MT1	Session A:2	Study 150
2	E039060	Sustainable Energy and Rational Use of Energy [en] Jeroen Beeckman Department of Electronics and Information Systems	4			A:2	120
3	1700265	Malting and Brewing Technology Jessika De Clippeleer Department of Biotechnology	4			A:1	120
ļ	1002607	Resource Recovery Technology [en] Ramon Ganigué Department of Biotechnology	6			A:2	180
5	1001561	Industrial Chemistry Sven Mangelinckx Department of Green Chemistry and Technology	3			A:2	75
6	1002776	Processes in Practice [en] Eveline Volcke Department of Green Chemistry and Technology	3			A:1	90
7	1003021	Advanced Biosystems Modelling [en] Paul Van Liedekerke Department of Data Analysis and Mathematical Modellin	5 g			A:2	150
2.3	3 Chemic	cal Analysis					
۷r 1	Course 1002754	Environmental Chemistry: Organic Polluents Christophe Walgraeve Department of Green Chemistry and Technology	CRDT 3	Ref	MT1	Session A:1	Study 90
<u>-</u>	1002750	Isotopes in Biosciences [en] Pascal Boeckx Department of Green Chemistry and Technology	5			A:1	150
3	1002728	Chemical Food Safety Bruno De Meulenaer Department of Food Technology, Safety and Health	5			(A:1) ^d	150
2.4	4 Entrepi	reneurship and Management					
۷r	Course		CRDT	Ref	MT1	Session	Study
	1001967	Intellectual Property and Valorization [en] Benedikt Sas Department of Food Technology, Safety and Health	3			A:2	90
<u>-</u>	1001949	Entrepreneurship Petra Andries Department of Marketing, Innovation and Organisation	3			A:2	75
3	E076460	Dare to Venture [en] Johan Verrue Department of Marketing, Innovation and Organisation	4			A:2	120
ļ	E076471	Dare to Start [en] Frank Gielen Department of Information Technology	3			A:2	90
5	C000833	Project Management Mario Vanhoucke Department of Business Informatics and Operations Manag	4 ement			A:2	120
3	F000710	Supply Chain Management [en] Louis-Philippe Kerkhove Department of Business Informatics and Operations	6 Managei	ment		A:2	180
2.	5 Skills a	and Attitudes					
		urse units from the following list, with no more than 10 credit units with reference		Dof	NAT1	Cassian	Ctudy
ur 1	Course 1002637	Internship [en, nl] Paul Van der Meeren Department of Green Chemistry and Technology	CRDT 5	Ref a	IVI I T	Session A:J	Study 150
2	1002638	International Internship [en, nl] Paul Van der Meeren Department of Green Chemistry and Technology	5	а		A:J	150
3	1002639	Extended Internship [en, nl] Paul Van der Meeren Department of Green Chemistry and Technology	10	а		A:J	300
1	1002640	Extended International Internship [en, nl] Paul Van der Meeren Department of Green Chemistry and Technology	10	а		A:J	300
5	1001944	Bio-ethics [en] Farah Focquaert Department of Philosophy and Moral Sciences	3			A:1	75
		Scientific Communication in English [an]	_			۸.۵	150
3	C002668	Scientific Communication in English [en] Geert Jacobs Department of Linguistics	5			A:2	130
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Mieke Uyttendaele -- Department of Food Technology, Safety and Health

2.6 Open Choice

Subscribe to course units from courses offered at Ghent University and at the alliance partner VUB, including the **Ghent University Elective Courses**.

A maximum of 2 such courses is allowed.

Maximum 8 credit units language courses are allowed within this master programme.

Subject to approval by the Faculty.

3 Master's Dissertation 30 credits

Nr Course		CRDT		Session	Study
1 1001480	Master's Dissertation	30	2	A:J	900

Frederik Ronsse -- Department of Green Chemistry and Technology

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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