

Study Programme

Academic year 2026-2027

Faculty of Bioscience Engineering

Master of Science in Bioscience Engineering: Chemistry and Bioprocess Technology

Language of instruction: Dutch

Programme version 15

1	Genera	Courses			58	credits
Nr	Course		CRDT	Ref MT1	Session	Study
1	1003079	Chemical Structure Determination [en] Christian Stevens Department of Green Chemistry and Technology	4	1	A:1	120
2	1002612	Industrial Biotechnology [en] Wim Soetaert Department of Biotechnology	5	1	A:1	150
3	1002668	Analytical Inorganic Chemistry: Instrumental Techniques Gijs Du Laing Department of Green Chemistry and Technology	3	1	A:1	90
4	1003071	Process Engineering 2 [en] Paul Van der Meeren Department of Green Chemistry and Technology	5	1	A:1	150
5	1002678	Bio-organic Chemistry [en] Christian Stevens Department of Green Chemistry and Technology	4	1	A:1	120
6	1002679	Green Chemistry of Renewable Resources	4	1		120
7	1003060	Sustainable Systems Engineering [en] Sophie Huysveld Department of Green Chemistry and Technology	5	1	A:1	150
8	1002667	Colloid and Surface Chemistry Paul Van der Meeren Department of Green Chemistry and Technology	5	1	A:2	150
9	1002677	Thermochemical Conversion of Biomass Stef Ghysels Department of Green Chemistry and Technology	4	1	A:2	120
10	1003080	Process Control [en] Paul Van Liedekerke Department of Data Analysis and Mathematical Modelling	5	1	A:2	150
11	1002680	Integrated Practical Classes in Advanced Organic Chemistry Christian Stevens Department of Green Chemistry and Technology	5	1	A:2	150
12	1003068	Management for Engineers [en] Jeroen Buysse Department of Agricultural Economics	4	2	A:1	120
13	1003081	Quality Management and Risk Analysis Liesbeth Jacxsens Department of Food Technology, Safety and Health	5	2	A:2	150
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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.

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	5				150
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

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2.2 Chem	ical and/or Bioprocess Technology				
Nr Course		CRDT Re	f MT1	Session	Study
1 1002631	Industrial Fermentation Processes and Downstream Processing [en] Wim Soetaert Department of Biotechnology	5		A:2	150
2 E039060	Sustainable Energy and Rational Use of Energy [en] Filip Strubbe 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
4 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 Modelling	5		A:1	150
2.3 Chem	ical Analysis				
Nr Course		CRDT Re	f MT1	Session	Study
1 1002754	Environmental Chemistry: Organic Polluents Christophe Walgraeve Department of Green Chemistry and Technology	3		A:1	90
2 1002750	Isotopes in Biosciences [en] Pascal Boeckx Department of Green Chemistry and Technology	5		A:1	150

2.4 Entrepreneurship and Management

Nr	Course		CRDT	Ref	MT1	Session	Study
1	1001967	Intellectual Property and Valorization	3				90
2	1001949	Entrepreneurship	3				75
3	F001022	Dare to Venture [en] Johan Verrue Department of Marketing, Innovation and Organisation	4			A:2	120
4	E076471	Dare to Start [en] Wouter Haerick Department of Information Technology	3			A:2	90
5	C000833	Project Management Mario Vanhoucke Department of Business Informatics and Operations Management	4			A:2	120
6	F000710	Supply Chain Management [en] Louis-Philippe Kerkhove Department of Business Informatics and Operations Management	6			A:2	180

2.5 Skills and Attitudes

Nr Course		CRDT	Ref MT1	Session	Study
1 1002637	Internship [en, nl] Peter Ragaert Department of Food Technology, Safety and Health	5	а	A:J	150
2 1002638	International Internship [en, nl] Peter Ragaert Department of Food Technology, Safety and Health	5	а	A:J	150
3 1002639	Extended Internship [en, nl] Peter Ragaert Department of Food Technology, Safety and Health	10	а	A:J	300
4 1002640	Extended International Internship [en, nl] Peter Ragaert Department of Food Technology, Safety and Health	10	а	A:J	300
5 1003067	Bioethics [en] Michiel De Proost Department of Philosophy and Moral Sciences	3		A:1	75
6 C002668	Scientific Communication in English [en] Geert Jacobs Department of Linguistics	5		A:2	150
7 1001784	Seminar	3			75

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.

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 Nr Course
 CRDT Ref MT1
 Session Study

 1 I001480 Master's Dissertation
 30
 2
 A:J
 900

30 credits

Thomas Heugebaert -- Department of Green Chemistry and Technology

Master's Dissertation

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 2027-2028 f: annually, from 2028-2029 i: annually, from 2029-2030 b: tri-annually d: bi-annually, from 2027-2028 g: bi-annually, from 2028-2029 j: bi-annually, from 2029-2030 b: tri-annually, from 2027-2028 h: tri-annually, from 2028-2029 k: tri-annually, from 2029-2030

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