

Faculty of Bioscience Engineering

Master of Science in Bioscience Engineering: Chemistry and Bioprocess Technology

Campus: UGent

Language(s) of instruction: Dutch (Programme sheet as of: 2018)

Programme version 12 Valid as from the academic year 2020-2021 (VOORSTEL)

IMCHEM12.1 General Courses - IMCHEMalg 58.0 credits

Nr	Course	CRDT	Ref	MT1	MT2	Session	Contact	Study
1	I002675 Chemical Structure Determination [nl] Christian Stevens -- Department of Green Chemistry and Technology	4.0		1		A:1	40.0	120
2	I002667 Colloid and Surface Chemistry [nl] Paul Van der Meeren -- Department of Green Chemistry and Technology	5.0		1		A:2	50.0	150
3	I002612 Industrial Biotechnology [en] Wim Soetaert -- Department of Biotechnology	5.0		1		A:1	50.0	150
4	I002668 Analytical Inorganic Chemistry: Instrumental Techniques [nl] Gijs Du Laing -- Department of Green Chemistry and Technology	3.0		1		A:1	30.0	90
5	I002618 Process Engineering 2 [nl, en] Paul Van der Meeren -- Department of Green Chemistry and Technology	5.0		1		A:1	50.0	150
6	I002677 Thermochemical Conversion of Biomass [nl] Frederik Ronsse -- Department of Green Chemistry and Technology	4.0		1		A:2	40.0	120
7	I002678 Bio-organic Chemistry [en] Christian Stevens -- Department of Green Chemistry and Technology	4.0		1		A:1	40.0	120
8	I002679 Green Chemistry of Renewable Resources [en] Sven Mangelinckx -- Department of Green Chemistry and Technology	4.0		1		A:1	40.0	120
9	I002672 Process Control [nl] Ingmar Nopens -- Department of Data Analysis and Mathematical Modelling	5.0		1		A:2	50.0	150
10	I002700 Clean Technology [en] Sophie Huysveld -- Department of Green Chemistry and Technology	5.0		1		A:1	50.0	150
11	I002680 Integrated Practical Classes in Advanced Organic Chemistry [nl] Christian Stevens -- Department of Green Chemistry and Technology	5.0		1		A:2	50.0	150
12	I002619 Management for Engineers [nl, en] Jeroen Buysse -- Department of Agricultural Economics	4.0		2		A:1	40.0	120
13	I002652 Quality Management and Risk Analysis [en] Liesbeth Jacxsens -- Department of Food Technology, Safety and Health	5.0		2		A:2	50.0	150

IMCHEM12.2 Elective Courses - IMCHEMkeuze 31.0 credits

Subscribe to 31 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.

IMCHEM12.2.1 Product Development and Renewable Resources - IMCHEMkeuzeproduct

Nr	Course	CRDT	Ref	MT1	MT2	Session	Contact	Study
1	I002753 Chemistry of Natural Products [en] Sven Mangelinckx -- Department of Green Chemistry and Technology	5.0				A:1	50.0	150
2	E071341 Molecular Modelling of Industrial Processes [nl] Veronique Van Speybroeck -- Department of Applied Physics	6.0				A:2	60.0	180
3	I002734 Crop Protection Chemistry [nl] Pieter Spanoghe -- Department of Plants and Crops	5.0				A:2	50.0	150
4	C002553 Trends in Organic Chemistry [en] Annemieke Madder -- Department of Organic Chemistry	6.0				A:2	86.0	158

5	C003246	Heterogeneous Catalysis [en] Pascal Van Der Voort -- Department of Inorganic and Physical Chemistry	6.0				A:2	54.0	156
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IMCHEM12.2.2 Chemical and/or Bioprocess Technology - IMCHEMkeuzetechologie

Nr	Course	CRDT	Ref	MT1	MT2	Session	Contact	Study
1	I002631 Industrial Fermentation Processes and Downstream Processing [en] Wim Soetaert -- Department of Biotechnology	5.0				A:2	50.0	150
2	I002673 Packaging Technology [en] Peter Ragaert -- Department of Food Technology, Safety and Health	5.0				A:2	50.0	150
3	I002719 Modelling and Simulation with Partial Differential Equations in Practice [en] Ingmar Nopens -- Department of Data Analysis and Mathematical Modelling	5.0				A:1	50.0	150
4	I002669 Food Technology [en] Koen Dewettinck -- Department of Food Technology, Safety and Health	5.0				A:1	50.0	150
5	E039060 Sustainable Energy and Rational Use of Energy [en] Jeroen Beeckman -- Department of Electronics and Information Systems	4.0				A:2	45.0	120
6	I700241 Brewing Technology [nl] Jessika De Clippeleer -- Department of Biotechnology	4.0				A:1	40.0	120
7	I002607 Resource Recovery Technology [en] Ramon Ganigué -- Department of Biotechnology	6.0				A:2	60.0	180
8	I001561 Industrial Chemistry [nl] Sven Mangelinckx -- Department of Green Chemistry and Technology	3.0				A:2	30.0	75
9	I002776 Processes in Practice [en] Eveline Volcke -- Department of Green Chemistry and Technology	3.0				A:1	30.0	90

IMCHEM12.2.3 Chemical Analysis - IMCHEMkeuzeanalyse

Nr	Course	CRDT	Ref	MT1	MT2	Session	Contact	Study
1	I001398 Instrumental Organic Analysis [en] Sven Mangelinckx -- Department of Green Chemistry and Technology	3.0				A:2	30.0	75
2	I002754 Environmental Chemistry: Organic Polluents [nl] Christophe Walgraeve -- Department of Green Chemistry and Technology	3.0				A:1	30.0	90
3	I002750 Isotopes in Biosciences [en] Pascal Boeckx -- Department of Green Chemistry and Technology	5.0				A:1	50.0	150
4	I002670 Biochemical and Functional Analysis of Foods [nl] Bruno De Meulenaer -- Department of Food Technology, Safety and Health	5.0				A:1	50.0	150
5	I002728 Chemical Food Safety [nl] Bruno De Meulenaer -- Department of Food Technology, Safety and Health	5.0				A:1(2021)	50.0	150

IMCHEM12.2.4 Entrepreneurship and Management - IMCHEMkeuzeondernemersch.

Nr	Course	CRDT	Ref	MT1	MT2	Session	Contact	Study
1	I001967 Intellectual Property and Valorization [en] Benedikt Sas -- Department of Food Technology, Safety and Health	3.0				A:2	30.0	90
2	I001949 Entrepreneurship [nl] Maikel Pellens -- Department of Marketing, Innovation and Organisation	3.0				A:2	30.0	75
3	E076460 Dare to Venture [en] Johan Verrue -- Department of Marketing, Innovation and Organisation	4.0				A:2	30.0	120
4	E076471 Dare to Start [en] Frank Gielen -- Department of Information Technology	3.0				A:2	36.0	90
5	C000833 Project Management [nl] Mario Vanhoucke -- Department of Business Informatics and Operations Management	4.0				A:2	45.0	120
6	F000710 Supply Chain Management [en] Tarik Aouam -- Department of Business Informatics and Operations Management	6.0				A:2	45.0	180
7	E076930 Financial and Cost Price Reporting in Companies [nl] Faculteit Economie en Bedrijfskunde, Patricia Everaert -- Department of Accounting, Corporate Finance and Taxation	6.0				A:1	45.0	180

IMCHEM12.2.5 Skills and Attitudes - IMBIIR_VA

Subscribe to course units from the following list, with no more than 10 credit units with reference a.

Nr	Course	CRDT	Ref	MT1	MT2	Session	Contact	Study
1	I002637 Internship [nl, en] Tom Desmet -- Department of Biotechnology	5.0	a			A:J	30.0	150
2	I002638 International Internship [nl, en] Tom Desmet -- Department of Biotechnology	5.0	a			A:J	30.0	150
3	I002639 Extended Internship [nl, en] Tom Desmet -- Department of Biotechnology	10.0	a			A:J	60.0	300

4	I002640	Extended International Internship [nl, en] Tom Desmet -- Department of Biotechnology	10.0	a		A:J	60.0	300
5	I001944	Bio-ethics [en] Heidi Mertes -- Department of Philosophy and moral sciences	3.0			A:1	30.0	75
6	C002668	Scientific Communication in English [en] Geert Jacobs -- Department of Linguistics	5.0			A:2	45.0	150
7	I001784	Seminar [nl, en] Luc Tirry -- Department of Plants and Crops	3.0			A:J	30.0	75

IMCHEM12.2.6 Open Choice - IHAUGent&VUBkeuze

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.

IMCHEM12.3 Master's Dissertation - IMCHEMmasterproef 30.0 credits

Nr	Course	CRDT	Ref	MT1	MT2	Session	Contact	Study
1	I001480 Master's Dissertation [nl]	30.0		2	4	A:J	300.0	900