

Faculty of Engineering and Architecture

Bridging Programme Master of Science in Chemical Engineering

Language of instruction: English

Programme version 7

1 General Courses 63 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	E001161 Mathematic Models <i>Karel Van Acoleyen -- Department of Electronics and Information Systems</i>	6	BRUG	1	A:1	180
2	E071040 Introduction to Reactor Science and Kinetics [nl] <i>Mark Saeys -- Department of Materials, Textiles and Chemical Engineering</i>	6	BRUG	1	A:1	180
3	E071200 Unit Operations in Chemical Industry <i>Geraldine Heynderickx -- Department of Materials, Textiles and Chemical Engineering</i>	6		1	B:1	180
4	E071131 Sustainable Chemical Production Processes <i>Kevin Van Geem -- Department of Materials, Textiles and Chemical Engineering</i>	6		1	A:1	180
5	E028700 Thermal Installations <i>Michel De Paepe -- Department of Electromechanical, Systems and Metal Engineering</i>	6		1	A:2	180
6	E073760 Chemical Process Design <i>Georgios Bellas -- Department of Materials, Textiles and Chemical Engineering</i>	6		1	B:2	180
7	E071170 Process Control <i>Dana Copot -- Department of Electromechanical, Systems and Metal Engineering</i>	6		1	A:2	180
8	E071140 Catalysis and Kinetics <i>Mark Saeys -- Department of Materials, Textiles and Chemical Engineering</i>	6		1	A:2	180
9	E073720 Industrial Project <i>Kevin Van Geem -- Department of Materials, Textiles and Chemical Engineering</i>	6		2	B:1	180
10	E072110 Chemical Reactors: Fundamentals and Applications <i>Paul Van Steenberghe -- Department of Materials, Textiles and Chemical Engineering</i>	6		2	B:1	180
11	E071190 Process Intensification <i>Yi Ouyang -- Department of Materials, Textiles and Chemical Engineering</i>	3		2	A:2	90

2 Elective Courses 33 credits

Subscribe to 33 credits elective courses, with at least 18 credit units in-depth elective courses and no more than 15 credit units broadening elective courses. Subject to approval by the faculty.

2.1 In-Depth Elective Courses 18 credits

Subscribe to no less than 18 credit units from the following list. Subject to approval by the faculty.

Nr	Course	CRDT	Ref	MT1	Session	Study
1	E074200 Kinetic Modelling and Simulation <i>Joris Thybaut -- Department of Materials, Textiles and Chemical Engineering</i>	6			A:1	180
2	E071181 Chemistry of Industrial Processes	6			B:2	180
3	E071341 Molecular Modelling of Industrial Processes <i>Veronique Van Speybroeck -- Department of Applied Physics</i>	6			A:2	180
4	E064950 Polymer Reaction Engineering <i>Dagmar D'hooge -- Department of Materials, Textiles and Chemical Engineering</i>	6			A:2	180
5	E040533 Computational Fluid Dynamics in Chemical Technology <i>Geraldine Heynderickx -- Department of Materials, Textiles and Chemical Engineering</i>	3			A:2	90
6	E021525 Statistical Physics [nl] <i>Louis Vanduyfhuys -- Department of Applied Physics</i>	3			A:2	90
7	E021560 Molecular Structure [nl] <i>Veronique Van Speybroeck -- Department of Applied Physics</i>	3			A:2	90

Subscribe to no more than 15 credit units broadening elective courses, from the list with broadening elective courses in the Master of Science in Chemical Engineering.

3 Master's Dissertation

24 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	E091103 Master's Dissertation	24		2	B:J	720

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 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
	e: tri-annually, from 2027-2028	h: tri-annually, from 2028-2029	k: tri-annually, from 2029-2030