

Faculty of Engineering and Architecture

Bridging Programme Master of Science in Chemical Engineering

Language of instruction: English

Programme version 6

1 General Courses 69 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 [n] <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	E048500 Thermal Machines <i>Sebastian Verhelst -- Department of Electromechanical, Systems and Metal Engineering</i>	6		1		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		180
11	E071190 Process Intensification <i>Yi Ouyang -- Department of Materials, Textiles and Chemical Engineering</i>	3		2	A:2	90
12	E028700 Thermal Installations	6		1		180

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 [n] <i>Louis Vanduyfhuys -- Department of Applied Physics</i>	3			A:2	90

2.2 Broadening Elective Courses

15 credits

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