

Faculty of Engineering and Architecture  
Master of Science in Chemical Engineering

Language of instruction: English  
Programme version 12

## 1 General Courses 60 credits

| Nr | Course   | CRDT | Ref | MT1 | Session | Study |
|----|--|------|-----|-----|---------|-------|
| 1  | E071200 Unit Operations in Chemical Industry<br><i>Geraldine Heynderickx -- Department of Materials, Textiles and Chemical Engineering</i><br><a href="#">Indicative price: unknown</a>        | 6    |     | 1   | B:1     | 180   |
| 2  | E071131 Sustainable Chemical Production Processes<br><i>Kevin Van Geem -- Department of Materials, Textiles and Chemical Engineering</i><br><a href="#">Indicative price: unknown</a>          | 6    |     | 1   | A:1     | 180   |
| 3  | E068900 Structure and Dynamics of Polymers<br><i>Karen De Clerck -- Department of Materials, Textiles and Chemical Engineering</i><br><a href="#">Indicative price: € 0</a>                    | 6    |     | 1   | B:1     | 180   |
| 4  | E028700 Thermal Installations<br><i>Michel De Paepe -- Department of Electromechanical, Systems and Metal Engineering</i><br><a href="#">Indicative price: € 50</a>                            | 6    |     | 1   | A:1     | 180   |
| 5  | E072110 Chemical Reactors: Fundamentals and Applications<br><i>Paul Van Steenberghe -- Department of Materials, Textiles and Chemical Engineering</i><br><a href="#">Indicative price: € 0</a> | 6    |     | 1   | B:1     | 180   |
| 6  | E073760 Chemical Process Design<br><i>Georgios Bellas -- Department of Materials, Textiles and Chemical Engineering</i><br><a href="#">Indicative price: unknown</a>                           | 6    |     | 1   | B:2     | 180   |
| 7  | E071170 Process Control<br><i>Clara Ionescu -- Department of Electromechanical, Systems and Metal Engineering</i><br><a href="#">Indicative price: € 0</a>                                     | 6    |     | 1   | A:2     | 180   |
| 8  | E071140 Catalysis and Kinetics<br><i>Mark Saeys -- Department of Materials, Textiles and Chemical Engineering</i><br><a href="#">Indicative price: € 0</a>                                     | 6    |     | 1   | A:2     | 180   |
| 9  | E073720 Industrial Project<br><i>Kevin Van Geem -- Department of Materials, Textiles and Chemical Engineering</i><br><a href="#">Indicative price: unknown</a>                                 | 6    |     | 2   | B:1     | 180   |
| 10 | E072302 Safety, Health and Environmental Management<br><i>Paul Van Steenberghe -- Department of Materials, Textiles and Chemical Engineering</i><br><a href="#">Indicative price: € 0</a>      | 3    |     | 2   | A:2     | 90    |
| 11 | E071190 Process Intensification<br><i>Yi Ouyang -- Department of Materials, Textiles and Chemical Engineering</i><br><a href="#">Indicative price: € 0</a>                                     | 3    |     | 2   | A:2     | 90    |

## 2 Elective Courses 36 credits

Subscribe to 36 credit units from 2 modules from the following list. Subject to approval by the faculty.

- 12 credit units in year 1
- 24 credit units in year 2.

### 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<br><i>Joris Thybaut -- Department of Materials, Textiles and Chemical Engineering</i> | 6    |     |     | A:1     | 180   |

|   |         |  |   |  |         |
|---|---------|--|---|--|---------|
|   |         | <a href="#">Indicative price: unknown</a>  |   |  |         |
| 2 | E071181 | Chemistry of Industrial Processes<br><i>Maarten Sabbe -- Department of Materials, Textiles and Chemical Engineering</i><br><a href="#">Indicative price: € 0</a>                               | 6 |  | B:2 180 |
| 3 | E071341 | Molecular Modelling of Industrial Processes<br><i>Veronique Van Speybroeck -- Department of Applied Physics</i><br><a href="#">Indicative price: € 0</a>                                       | 6 |  | A:2 180 |
| 4 | E064950 | Polymer Reaction Engineering<br><i>Dagmar D'hooge -- Department of Materials, Textiles and Chemical Engineering</i><br><a href="#">Indicative price: € 0</a>                                   | 6 |  | A:2 180 |
| 5 | E040533 | Computational Fluid Dynamics in Chemical Technology<br><i>Geraldine Heynderickx -- Department of Materials, Textiles and Chemical Engineering</i><br><a href="#">Indicative price: unknown</a> | 3 |  | A:2 90  |

## 2.2 Broadening Elective Courses

18 credits

Subscribe to at most 18 credit units from 1 elective path from the following list. Subject to approval by the faculty.

### 2.2.1 Broadening Elective Courses: Option 1

18 credits

Subscribe to at most 18 credit units from no less than 1 and no more than 3 modules from the following list. Subject to approval by the faculty.

#### 2.2.1.1 Clusters

The student may choose electives across the different clusters.

##### 2.2.1.1.1 Cluster Economic Aspects

| Nr | Course   | CRDT | Ref | MT1 | Session | Study |
|----|--|------|-----|-----|---------|-------|
| 1  | E004255 Operations Research Models and Methods<br><i>El-Houssaine Aghezzaf -- Department of Industrial Systems Engineering and Product Design</i><br><a href="#">Indicative price: € 0</a> | 6    |     |     | A:1     | 180   |
| 2  | E076221 Manufacturing Planning and Control<br><i>Birger Raa -- Department of Industrial Systems Engineering and Product Design</i><br><a href="#">Indicative price: € 0</a>                | 6    |     |     | A:1     | 180   |
| 3  | E076820 Project Management<br><i>Mario Vanhoucke -- Department of Business Informatics and Operations Management</i><br><a href="#">Indicative price: € 75</a>                             | 6    |     |     | A:2     | 180   |
| 4  | E076951 Engineering Economy<br><i>Sofie Verbrugge -- Department of Information Technology</i><br><a href="#">Indicative price: € 60</a>  | 6    |     |     | A:1     | 180   |
| 5  | F000551 Business Skills<br><i>Mieke Audenaert -- Department of Marketing, Innovation and Organisation</i><br><a href="#">Indicative price: € 46</a>  | 4    |     |     | C:2     | 120   |

##### 2.2.1.1.2 Cluster Chemistry

| Nr | Course  | CRDT | Ref | MT1 | Session | Study |
|----|---|------|-----|-----|---------|-------|
| 1  | I002679 Green Chemistry of Renewable Resources<br><i>Sven Mangelinckx -- Department of Green Chemistry and Technology</i><br><a href="#">Indicative price: € 12</a>               | 4    |     |     | A:1     | 120   |
| 2  | E070650 Advanced Instrumental Techniques for Chemical Analysis<br><i>Laszlo Vincze -- Department of Chemistry</i><br><a href="#">Indicative price: unknown</a>                    | 3    |     |     | A:1     | 90    |
| 3  | C002965 Advanced Polymer Chemistry<br><i>Filip Du Prez -- Department of Organic Chemistry</i><br><a href="#">Indicative price: unknown</a>  | 3    |     |     | A:1     | 75    |
| 4  | I002754 Environmental Chemistry: Organic Polluents [nl]<br><i>Christophe Walgraeve -- Department of Green Chemistry and Technology</i><br><a href="#">Indicative price: € 105</a> | 3    |     |     | A:1     | 90    |
| 5  | C004141 Materials Physics<br><i>Zeger Hens -- Department of Chemistry</i><br><a href="#">Indicative price: € 0</a>  | 6    |     |     | A:1     | 180   |
| 6  | C004159 Advanced X-ray Spectroscopy<br><i>Laszlo Vincze -- Department of Chemistry</i><br><a href="#">Indicative price: € 8</a>   | 3    |     |     | A:2     | 90    |

|   |         |   |   |  |  |     |     |
|---|---------|---|---|--|--|-----|-----|
| 7 | C004144 | Topics in Nanoscience<br><i>Pieter Geiregat -- Department of Chemistry</i><br><a href="#">Indicative price: € 0</a> | 4 |  |  | A:2 | 120 |
|---|---------|---|---|--|--|-----|-----|

#### 2.2.1.1.3 Cluster Fundamental Techniques

| Nr | Course  | CRDT | Ref | MT1 | Session | Study |
|----|---|------|-----|-----|---------|-------|
| 1  | I001280 Experimental Design<br><i>Stijn Luca -- Department of Data Analysis and Mathematical Modelling</i><br><a href="#">Indicative price: € 15</a>  | 3    |     |     | A:2     | 75    |
| 2  | E005220 Linear Systems<br><i>Gert De Cooman -- Department of Electronics and Information Systems</i><br><a href="#">Indicative price: € 0</a>   | 6    |     |     | A:2     | 180   |
| 3  | E005722 Modelling and Simulation of Dynamical Systems<br><i>Guillaume Crevecoeur -- Department of Electromechanical, Systems and Metal Engineering</i><br><a href="#">Indicative price: € 0</a> | 6    |     |     | A:2     | 180   |
| 4  | E045240 Computational Fluid Dynamics<br><i>Joris Degroote -- Department of Electromechanical, Systems and Metal Engineering</i><br><a href="#">Indicative price: € 75</a>                       | 6    |     |     | A:2     | 180   |
| 5  | E039110 Technical Thermodynamics [nl]<br><i>Michel De Paepe -- Department of Electromechanical, Systems and Metal Engineering</i><br><a href="#">Indicative price: € 50</a>                     | 6    |     |     | A:1     | 180   |

#### 2.2.1.1.4 Cluster Materials

| Nr | Course   | CRDT | Ref | MT1 | Session | Study |
|----|--|------|-----|-----|---------|-------|
| 1  | E064961 Polymer Processing and Circularity<br><i>Dagmar D'hooge -- Department of Materials, Textiles and Chemical Engineering</i><br><a href="#">Indicative price: € 0</a>                                     | 6    |     |     | A:2     | 180   |
| 2  | E065340 Micro-analysis and Structure Determination in Materials Science<br><i>Roumen Petrov -- Department of Electromechanical, Systems and Metal Engineering</i><br><a href="#">Indicative price: unknown</a> | 6    |     |     | A:1     | 180   |
| 3  | E066170 Physical Materials Science<br><i>Leo Kestens -- Department of Electromechanical, Systems and Metal Engineering</i><br><a href="#">Indicative price: unknown</a>  | 6    |     |     | C:1     | 180   |
| 4  | C004145 Functional Ceramics<br><i>Klaartje De Buysser -- Department of Chemistry</i><br><a href="#">Indicative price: € 7</a>  | 3    |     |     | B:2     | 90    |
| 5  | C004142 Surface Topology, Internal Structure and Composition<br><i>Mieke Adriaens -- Department of Chemistry</i><br><a href="#">Indicative price: € 0</a>  | 6    |     |     | A:1     | 180   |
| 6  | C004140 Nanomaterials Chemistry<br><i>Pascal Van Der Voort -- Department of Chemistry</i><br><a href="#">Indicative price: € 100</a>   | 6    |     |     | A:1     | 180   |
| 7  | C004157 Principle and Applications of Stable Isotope Analysis<br><i>Pascal Boeckx -- Department of Green Chemistry and Technology</i><br><a href="#">Indicative price: € 0</a>                                 | 3    |     |     | A:2     | 90    |
| 8  | C004155 Analytical Methods for Material Characterization<br><i>Mieke Adriaens -- Department of Chemistry</i><br><a href="#">Indicative price: € 0</a>  | 9    |     |     | A:1     | 270   |

#### 2.2.1.1.5 Cluster Technology

| Nr | Course  | CRDT | Ref | MT1 | Session | Study |
|----|---|------|-----|-----|---------|-------|
| 1  | I002700 Clean Technology<br><i>Sophie Huysveld -- Department of Green Chemistry and Technology</i><br><a href="#">Indicative price: unknown</a>                               | 5    |     |     | A:1     | 150   |
| 2  | E039060 Sustainable Energy and Rational Use of Energy<br><i>Jeroen Beeckman -- Department of Electronics and Information Systems</i><br><a href="#">Indicative price: € 7</a> | 4    |     |     | A:2     | 120   |
| 3  | I002618 Process Engineering 2<br><i>Paul Van der Meeren -- Department of Green Chemistry and Technology</i><br><a href="#">Indicative price: € 10</a>                         | 5    |     |     | A:1     | 150   |

|    |         |  |   |  |  |     |     |
|----|---------|--|---|--|--|-----|-----|
| 4  | I002934 | Technology of Plant-based Foods<br><i>Koen Dewettinck -- Department of Food Technology, Safety and Health</i><br><a href="#">Indicative price: € 0</a>   | 5 |  |  | A:2 | 150 |
| 5  | I002677 | Thermochemical Conversion of Biomass [nl]<br><i>Frederik Ronsse -- Department of Green Chemistry and Technology</i><br><a href="#">Indicative price: € 0</a>   | 4 |  |  | A:2 | 120 |
| 6  | E065472 | Metal Extraction and Recycling<br><i>Inge Bellemans -- Department of Materials, Textiles and Chemical Engineering</i><br><a href="#">Indicative price: € 0</a>   | 6 |  |  | A:2 | 180 |
| 7  | E073770 | Process Safety: Reactor Technology, Intrinsic Hazards and Process Safety Hazard Analysis<br><i>Paul Van Steenberghe -- Department of Materials, Textiles and Chemical Engineering</i><br><a href="#">Indicative price: € 0</a> | 3 |  |  |     | 90  |
| 8  | I002776 | Processes in Practice<br><i>Eveline Volcke -- Department of Green Chemistry and Technology</i><br><a href="#">Indicative price: € 2</a>  | 3 |  |  | A:1 | 90  |
| 9  | I002752 | Advanced Wastewater Treatment Process Design<br><i>Eveline Volcke -- Department of Green Chemistry and Technology</i><br><a href="#">Indicative price: € 0</a>   | 3 |  |  | A:1 | 90  |
| 10 | I002507 | Environmental Technology: Solid Waste Streams [nl]<br><i>Frederik Ronsse -- Department of Green Chemistry and Technology</i><br><a href="#">Indicative price: € 0</a>  | 4 |  |  | A:2 | 120 |
| 11 | I002683 | Environmental Technology: Soil [nl]<br><i>Ellen Van De Vijver -- Department of Environment</i><br><a href="#">Indicative price: € 0</a>  | 5 |  |  | A:1 | 150 |
| 12 | I002682 | Environmental Technology: Air [nl]<br><i>Christophe Walgraev -- Department of Green Chemistry and Technology</i><br><a href="#">Indicative price: € 70</a>   | 5 |  |  | A:1 | 150 |
| 13 | E064761 | Textile Functionalization<br><i>Karen De Clerck -- Department of Materials, Textiles and Chemical Engineering</i><br><a href="#">Indicative price: € 0</a>   | 6 |  |  | A:2 | 180 |

#### 2.2.1.1.6 Cluster Research Internship

| Nr | Course   | CRDT | Ref | MT1 | Session | Study |
|----|--|------|-----|-----|---------|-------|
| 1  | E099400 Research Internship<br><i>Patrick Segers -- Department of Electronics and Information Systems</i><br><a href="#">Indicative price: unknown</a> | 6    |     |     | A:J     | 180   |
| 2  | E099400 Research Internship<br><i>Patrick Segers -- Department of Electronics and Information Systems</i><br><a href="#">Indicative price: unknown</a> | 3    |     |     | B:J     | 90    |

#### 2.2.1.2 Elective Social Courses

Subscribe to no less than 6 credit units from the following list. Subject to approval by the faculty.  
Students may apply for another elective social course, given a clear motivation and after approval by the faculty (exceptionally, as a rule a course from the list below is followed).

| Nr | Course  | CRDT | Ref | MT1 | Session | Study |
|----|---|------|-----|-----|---------|-------|
| 1  | E099300 Industry Internship Engineering and Architecture [en, nl]<br><i>Patrick Segers -- Department of Electronics and Information Systems</i><br><a href="#">Indicative price: unknown</a>          | 6    |     |     | A:J     | 180   |
| 2  | E098010 Integrated Portfolio [en, nl]<br><i>Hiep Luong -- Department of Telecommunications and Information Processing</i><br><a href="#">Indicative price: € 50</a>                                   | 6    |     |     | A:J     | 180   |
| 3  | E098010 Integrated Portfolio [en, nl]<br><i>Hiep Luong -- Department of Telecommunications and Information Processing</i><br><a href="#">Indicative price: € 50</a>                                   | 3    |     |     | B:J     | 90    |
| 4  | E037810 Safety of Electrical and Mechanical Installations [nl]<br><i>Jos Knockaert -- Department of Electromechanical, Systems and Metal Engineering</i><br><a href="#">Indicative price: unknown</a> | 3    |     |     | A:2     | 90    |
| 5  | E039060 Sustainable Energy and Rational Use of Energy<br><i>Jeroen Beeckman -- Department of Electronics and Information Systems</i><br><a href="#">Indicative price: € 7</a>                         | 4    |     |     | A:2     | 120   |

|    |         |   |   |     |                  |     |
|----|---------|---|---|-----|------------------|-----|
| 6  | E078310 | Sustainable Use of Materials: Metals [nl]<br><i>Kim Verbeken -- Department of Materials, Textiles and Chemical Engineering</i><br><a href="#">Indicative price: € 8</a>                           | 3 |     | A:1              | 90  |
| 7  | E078320 | Sustainable Use of Materials: Plastics and Derived Materials [nl]<br><i>Lode Daelemans -- Department of Materials, Textiles and Chemical Engineering</i><br><a href="#">Indicative price: € 0</a> | 3 |     | A:2              | 90  |
| 8  | E078010 | Technology and Environment<br><i>Luc Martens -- Department of Information Technology</i><br><a href="#">Indicative price: € 0</a>   | 3 |     | A:1              | 90  |
| 9  | E078752 | Water and Air Quality Management<br><i>Joris Thybaut -- Department of Materials, Textiles and Chemical Engineering</i><br><a href="#">Indicative price: € 0</a>                                   | 4 |     | A:2              | 120 |
| 10 | E092100 | Biosystems [nl]<br><i>Pascal Verdonck -- Department of Electronics and Information Systems</i><br><a href="#">Indicative price: unknown</a>   | 3 |     | A:1              | 90  |
| 11 | E075310 | Ethics, Engineering and Society [nl]<br><i>Seppe Segers -- Department of Philosophy and Moral Sciences</i><br><a href="#">Indicative price: unknown</a>   | 3 |     | A:2              | 90  |
| 12 | C004009 | History and Philosophy of Sciences [nl]<br><i>Maarten Van Dyck -- Department of Philosophy and Moral Sciences</i><br><a href="#">Indicative price: € 0</a>  | 3 |     | A:1 <sup>a</sup> | 90  |
| 13 | E076320 | The Information Society and ICT [nl]<br><i>Erik Mannens -- Department of Electronics and Information Systems</i><br><a href="#">Indicative price: unknown</a>                                     | 3 |     | A:2              | 90  |
| 14 | A001900 | Introduction to Psychology [nl]<br><i>Wim Notebaert -- Department of Experimental Psychology</i><br><a href="#">Indicative price: unknown</a>   | 3 |     | A:1              | 90  |
| 15 | H001977 | Coaching and Diversity [nl]<br><i>Elisabeth De Schauwer -- Department of Special Education</i><br><a href="#">Indicative price: € 0</a>   | 3 | UKV | A:J              | 90  |
| 16 | A005503 | Context and Nuance. A Critical Reflection on Current Topics [nl]<br><i>Stef Craps -- Department of Literary Studies</i><br><a href="#">Indicative price: € 0</a>                                  | 6 | UKV | A:1              | 180 |
| 17 | E076450 | Basic Entrepreneurship [nl]<br><i>Yannick Dillen -- Department of Marketing, Innovation and Organisation</i><br><a href="#">Indicative price: unknown</a>   | 3 | UKV | A:1              | 90  |
| 18 | A005646 | Introduction to Corporate Law [nl]<br><i>Diederik Bruloot -- Department of Interdisciplinary Study of Law, Private Law and Business Law</i><br><a href="#">Indicative price: unknown</a>          | 3 |     | A:1              | 90  |
| 19 | E076460 | Dare to Venture<br><i>Johan Verrue -- Department of Marketing, Innovation and Organisation</i><br><a href="#">Indicative price: unknown</a>   | 4 |     | A:2              | 120 |
| 20 | E076471 | Dare to Start<br><i>Wouter Haerick -- Department of Information Technology</i><br><a href="#">Indicative price: unknown</a>   | 3 |     | A:2              | 90  |
| 21 | E076621 | Principles of Law and Construction Law [nl]<br><i>Jelle Laverge -- Department of Architecture and Urban Planning</i><br><a href="#">Indicative price: unknown</a>                                 | 3 |     | A:1              | 90  |
| 22 | E076951 | Engineering Economy<br><i>Sofie Verbrugge -- Department of Information Technology</i><br><a href="#">Indicative price: € 60</a>   | 6 |     | A:1              | 180 |
| 23 | E076431 | Introduction to Entrepreneurship<br><i>Petra Andries -- Department of Marketing, Innovation and Organisation</i><br><a href="#">Indicative price: € 33</a>  | 3 |     | A:1              | 90  |
| 24 | H002169 | Powerful Learning Environments [nl]<br><i>Bram De Wever -- Department of Educational Studies</i><br><a href="#">Indicative price: € 50</a>  | 6 |     | A:1              | 180 |
| 25 | H002196 | Classroom Management and Reflection [nl]<br><i>Tijs Rotsaert -- Department of Educational Studies</i><br><a href="#">Indicative price: € 50</a>   | 4 |     | A:2              | 120 |

|    |         |  |   |     |  |          |     |
|----|---------|--|---|-----|--|----------|-----|
| 26 | H002197 | The Teacher within School and Society [nl]<br><i>Melissa Tuytens -- Department of Educational Studies</i><br><a href="#">Indicative price: € 50</a>                      | 4 |     |  | A:1      | 120 |
| 27 | H002198 | Psychology of Adolescence [nl]<br><i>Wim Beyers -- Department of Developmental, Personality and Social Psychology</i><br><a href="#">Indicative price: € 51</a>          | 4 |     |  | A:1      | 120 |
| 28 | F000083 | Macroeconomics [nl]<br><i>Freddy Heylen -- Department of Economics</i><br><a href="#">Indicative price: € 65</a>   | 6 |     |  | A:1      | 180 |
| 29 | H001010 | Introduction Industrial Psychology [nl]<br><i>Bart Wille -- Department of Developmental, Personality and Social Psychology</i><br><a href="#">Indicative price: € 45</a> | 5 |     |  | A:2      | 150 |
| 30 | F000551 | Business Skills<br><i>Mieke Audenaert -- Department of Marketing, Innovation and Organisation</i><br><a href="#">Indicative price: € 46</a>                              | 4 |     |  | C:2      | 120 |
| 31 | A003001 | Academic English<br><i>Geert Jacobs -- Department of Linguistics</i><br><a href="#">Indicative price: € 0</a>  | 3 | UKV |  | B:1, A:2 | 90  |
| 32 | E075800 | Communication [nl]<br><i>Leen Pollefliet -- Department of Information Technology</i><br><a href="#">Indicative price: € 68</a>   | 3 |     |  | A:1      | 90  |

### 2.2.1.3 Elective Courses Ghent University

Subscribe to no more than 12 credit units from Elective Courses Ghent University. Subject to approval by the faculty.

[List of Ghent University Elective Courses](#)

### 2.2.2 Broadening Elective Courses: Option 2

18 credits

Subscribe to at most 18 credit units from 1 minor from the following list. Subject to approval by the faculty.

#### 2.2.2.1

Subscribe to 18 credit units from the following list, with 6 credit units with reference a. Subject to approval by the faculty.

| Nr | Course  | CRDT | Ref | MT1 | Session | Study |
|----|---|------|-----|-----|---------|-------|
| 1  | E076221 Manufacturing Planning and Control<br><i>Birger Raai -- Department of Industrial Systems Engineering and Product Design</i><br><a href="#">Indicative price: € 0</a>                | 6    | a   |     | A:1     | 180   |
| 2  | E004255 Operations Research Models and Methods<br><i>El-Houssaine Aghezzaf -- Department of Industrial Systems Engineering and Product Design</i><br><a href="#">Indicative price: € 0</a>  | 6    |     |     | A:1     | 180   |
| 3  | E060240 Quality Engineering and Industrial Statistics<br><i>Stijn De Vuyst -- Department of Industrial Systems Engineering and Product Design</i><br><a href="#">Indicative price: € 50</a> | 6    |     |     | A:2     | 180   |
| 4  | E076951 Engineering Economy<br><i>Sofie Verbrugge -- Department of Information Technology</i><br><a href="#">Indicative price: € 60</a>   | 6    |     |     | A:1     | 180   |

#### 2.2.2.2

Subscribe to 18 credit units from the following list, with no less than 8 credit units with reference a. Subject to approval by the faculty.

| Nr | Course   | CRDT | Ref | MT1 | Session | Study |
|----|--|------|-----|-----|---------|-------|
| 1  | E092623 Modelling of Physiological Systems<br><i>Patrick Segers -- Department of Electronics and Information Systems</i><br><a href="#">Indicative price: € 80</a> | 5    | a   |     | A:2     | 150   |
| 2  | E092662 From Genome to Organism<br><i>Fransiska Malfait -- Department of Biomolecular Medicine</i><br><a href="#">Indicative price: unknown</a>                    | 3    | a   |     | A:1     | 90    |
| 3  | E074011 Quantitative Cell and Tissue Analysis<br><i>Andre Skirtach -- Department of Biotechnology</i><br><a href="#">Indicative price: unknown</a>                 | 6    | a   |     | A:1     | 180   |
| 4  | E063671 Biomaterials and Tissue Engineering<br><i>Peter Dubruel -- Department of Organic Chemistry</i><br><a href="#">Indicative price: unknown</a>                | 5    |     |     | A:1     | 150   |
| 5  | E063682 Biomechanics<br><i>Charlotte Debbaut -- Department of Electronics and Information Systems</i><br><a href="#">Indicative price: € 0</a>                     | 6    |     |     | A:1     | 180   |

|   |         |  |   |  |  |     |     |
|---|---------|--|---|--|--|-----|-----|
| 6 | E010371 | Medical Imaging<br><i>Stefaan Vandenberghe -- Department of Electronics and Information Systems</i><br><a href="#">Indicative price: unknown</a> | 6 |  |  | A:1 | 180 |
|---|---------|--|---|--|--|-----|-----|

### 2.2.2.3

Subscribe to 18 credit units from the following list. Subject to approval by the faculty.

| Nr | Course   | CRDT | Ref | MT1 | Session | Study |
|----|--|------|-----|-----|---------|-------|
| 1  | C002275 Environmental Law [nl]<br><i>Hendrik Schoukens -- Department of European, Public and International Law</i><br><a href="#">Indicative price: € 0</a>                          | 5    |     |     | A:1     | 125   |
| 2  | I002700 Clean Technology<br><i>Sophie Huysveld -- Department of Green Chemistry and Technology</i><br><a href="#">Indicative price: unknown</a>                                      | 5    |     |     | A:1     | 150   |
| 3  | E065460 Rational Use of Materials<br><i>Tom Depover -- Department of Materials, Textiles and Chemical Engineering</i><br><a href="#">Indicative price: unknown</a>                   | 5    |     |     | A:1     | 150   |
| 4  | E078752 Water and Air Quality Management<br><i>Joris Thybaut -- Department of Materials, Textiles and Chemical Engineering</i><br><a href="#">Indicative price: € 0</a>              | 4    |     |     | A:2     | 120   |
| 5  | E039060 Sustainable Energy and Rational Use of Energy<br><i>Jeroen Beeckman -- Department of Electronics and Information Systems</i><br><a href="#">Indicative price: € 7</a>        | 4    |     |     | A:2     | 120   |
| 6  | E078061 Introduction to Environmental Risk Assessment<br><i>Karel De Schampheleere -- Department of Animal Sciences and Aquatic Ecology</i><br><a href="#">Indicative price: € 0</a> | 3    |     |     | A:1     | 90    |
| 7  | I002606 Environmental Risk Assessment<br><i>Karel De Schampheleere -- Department of Animal Sciences and Aquatic Ecology</i><br><a href="#">Indicative price: € 0</a>                 | 5    |     |     | A:1     | 150   |

## 3 Master's Dissertation

24 credits

| Nr | Course   | CRDT | Ref | MT1 | Session | Study |
|----|--|------|-----|-----|---------|-------|
| 1  | E091103 Master's Dissertation<br><a href="#">Indicative price: unknown</a> | 24   |     | 2   | B:J     | 720   |

## Programme related study costs

None

### 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 2025-2026     | f: annually, from 2026-2027     | i: annually, from 2027-2028     |
| b: tri-annually | d: bi-annually, from 2025-2026  | g: bi-annually, from 2026-2027  | j: bi-annually, from 2027-2028  |
|                 | e: tri-annually, from 2025-2026 | h: tri-annually, from 2026-2027 | k: tri-annually, from 2027-2028 |

### Learning materials

The prices stated are indicative and subject to fluctuations.

The list of learning materials per course unit can be found in the course sheets.