

Faculty of Bioscience Engineering

Exchange Programme in Bioscience Engineering: Cell and Gene Biotechnology (master's level)

Language of instruction: English

Programme version 5

1 Elective Courses

| Nr | Course | CRDT | Ref | MT1 | Session | Study |
|----|--|------|-----|-----|---------|-------|
| 1 | I002745 Applied Animal Genetics <i>Stefaan De Smet -- Department of Animal Sciences and Aquatic Ecology</i> | 5 | | | A:1 | 150 |
| 2 | I002750 Isotopes in Biosciences <i>Pascal Boeckx -- Department of Green Chemistry and Technology</i> | 5 | | | A:1 | 150 |
| 3 | I002628 Molecular Plant Breeding <i>Danny Geelen -- Department of Plants and Crops</i> | 5 | | | A:1 | 150 |
| 4 | I002615 Protein Chemistry <i>Els Van Damme -- Department of Biotechnology</i> | 4 | | | A:1 | 120 |
| 5 | I002688 Biopharmacy of Biotechnological Drugs <i>Stefaan De Smedt -- Department of Pharmaceutics</i> | 3 | | | A:2 | 90 |
| 6 | I001280 Experimental Design <i>Stijn Luca -- Department of Data Analysis and Mathematical Modelling</i> | 3 | | | A:2 | 75 |
| 7 | I002717 Functional Foods <i>Carl Lachat -- Department of Food Technology, Safety and Health</i> | 5 | | | A:2 | 150 |
| 8 | I002632 Metabolic Engineering and Modelling of Micro-organisms <i>Marjan De Mey -- Department of Biotechnology</i> | 4 | | | A:2 | 120 |
| 9 | I002607 Resource Recovery Technology <i>Ramon Ganigú -- Department of Biotechnology</i> | 6 | | | A:2 | 180 |
| 10 | I002611 Plant Biotechnology <i>Godelieve Gheysen -- Department of Biotechnology</i> | 5 | | | A:2 | 150 |
| 11 | I002652 Quality Management and Risk Analysis <i>Liesbeth Jaccxs -- Department of Food Technology, Safety and Health</i> | 5 | | | A:2 | 150 |
| 12 | I002616 Genome Analysis <i>Tim De Meyer -- Department of Data Analysis and Mathematical Modelling</i> | 5 | | | A:2 | 150 |
| 13 | I002091 Predictive Modelling <i>Willem Waegeman -- Department of Data Analysis and Mathematical Modelling</i> | 5 | | | B:2 | 150 |
| 14 | I002642 Biological Databases <i>Wim Van Criekeing -- Department of Data Analysis and Mathematical Modelling</i> | 5 | | | A:2 | 150 |
| 15 | I002644 Animal Physiology [nl] <i>Veerle Fievez -- Department of Animal Sciences and Aquatic Ecology</i> | 4 | | | A:1 | 120 |
| 16 | I001967 Intellectual Property and Valorization <i>Benedikt Sas -- Department of Food Technology, Safety and Health</i> | 3 | | | A:2 | 90 |
| 17 | I002621 Gene Regulation and Epigenetics <i>Godelieve Gheysen -- Department of Biotechnology</i> | 3 | | | A:2 | 90 |
| 18 | I002624 Biochemical and Molecular Nutrition <i>John Van Camp -- Department of Food Technology, Safety and Health</i> | 3 | | | A:1 | 90 |
| 19 | I002635 Enzyme Engineering and Modelling <i>Tom Desmet -- Department of Biotechnology</i> | 3 | | | A:1 | 90 |
| 20 | I002629 Plant Phenotyping Technologies <i>Kris Audenaert -- Department of Plants and Crops</i> | 3 | | | A:2 | 90 |

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|----|---------|---|---|-----|-----|
| 21 | I002795 | Aquaculture Genetics <i>Peter Bossier -- Department of Animal Sciences and Aquatic Ecology</i> | 6 | A:1 | 180 |
| 22 | I002617 | Bio-imaging and Image Informatics <i>Andre Skirtach -- Department of Biotechnology</i> | 4 | A:1 | 120 |
| 23 | I002633 | Functional (Meta)genomics <i>Inge Van Bogaert -- Department of Biotechnology</i> | 4 | A:2 | 120 |
| 24 | I002630 | Functional Plant Biology <i>Danny Geelen -- Department of Plants and Crops</i> | 4 | A:2 | 120 |
| 25 | I002634 | Synthetic Biology <i>Marjan De Mey -- Department of Biotechnology</i> | 4 | A:2 | 120 |
| 26 | I002610 | Bioinformatics <i>Wim Van Crielinge -- Department of Data Analysis and Mathematical Modelling</i> | 5 | A:1 | 150 |
| 27 | I002613 | Human and Animal Biotechnology <i>Daisy Vanrompay -- Department of Animal Sciences and Aquatic Ecology</i> | 5 | A:2 | 150 |
| 28 | I002612 | Industrial Biotechnology <i>Wim Soetaert -- Department of Biotechnology</i> | 5 | A:1 | 150 |
| 29 | I002622 | Immunology <i>Daisy Vanrompay -- Department of Animal Sciences and Aquatic Ecology</i> | 5 | A:2 | 150 |
| 30 | I002631 | Industrial Fermentation Processes and Downstream Processing <i>Wim Soetaert -- Department of Biotechnology</i> | 5 | A:2 | 150 |
| 31 | I002627 | Plants and Microclimate <i>Kathy Steppe -- Department of Plants and Crops</i> | 5 | A:1 | 150 |
| 32 | I002626 | Plants, Pathogens and Pests <i>Monica Höfte -- Department of Plants and Crops</i> | 5 | A:2 | 150 |
| 33 | I002719 | Modelling and Simulation with Partial Differential Equations in Practice <i>Ingmar Nopens -- Department of Data Analysis and Mathematical Modelling</i> | 5 | A:1 | 150 |
| 34 | I002623 | Interphase Processes of Host-associated Micro-organisms <i>Tom Van de Wiele -- Department of Biotechnology</i> | 5 | A:1 | 150 |
| 35 | I002614 | Microbiomics <i>Andreja Rajkovic -- Department of Food Technology, Safety and Health</i> | 4 | A:1 | 120 |
| 36 | I002636 | Spatio-temporal Models <i>Jan Baetens -- Department of Data Analysis and Mathematical Modelling</i> | 5 | | 150 |

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 2022-2023 | f: annually, from 2023-2024 | i: annually, from 2024-2025 |
| b: tri-annually | d: bi-annually, from 2022-2023 | g: bi-annually, from 2023-2024 | j: bi-annually, from 2024-2025 |
| | e: tri-annually, from 2022-2023 | h: tri-annually, from 2023-2024 | k: tri-annually, from 2024-2025 |