Study Programme

Academic year 2024-2025

Faculty of Bioscience Engineering

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

Language of instruction: English

Programme version 6

1 Elective Courses

Nr	Course		CRDT	Ref	MT1	Session	Study
1	I002750	Isotopes in Biosciences Pascal Boeckx -- Department of Green Chemistry and Technology	5			A:1	150
2	I002628	Molecular Plant Breeding Danny Geelen -- Department of Plants and Crops	5			A:1	150
3	I002615	Protein Chemistry Els Van Damme -- Department of Biotechnology	4			A:1	120
4	I001280	Experimental Design Stijn Luca -- Department of Data Analysis and Mathematical Modelling	3			A:2	75
5	I002717	Functional Foods John Van Camp -- Department of Food Technology, Safety and Health	5			A:2	150
6	I002632	Metabolic Engineering and Modelling of Micro-organisms Marjan De Mey -- Department of Biotechnology	4			A:2	120
7	I002607	Resource Recovery Technology Ramon Ganigué -- Department of Biotechnology	6			A:2	180
8	I002611	Plant Biotechnology	5			A:2	150
9	I002652	Quality Management and Risk Analysis Liesbeth Jacxsens -- Department of Food Technology, Safety and Health	5			A:2	150
10	I002616	Genome Analysis Tim De Meyer -- Department of Data Analysis and Mathematical Modelling	5			A:2	150
11	I002642	Biological Databases Wim Van Criekinge -- Department of Data Analysis and Mathematical Modelling	5			A:2	150
12	I002644	Animal Physiology [nl] Veerle Fievez -- Department of Animal Sciences and Aquatic Ecology	4			A:1	120
13	I001967	Intellectual Property and Valorization Benedikt Sas -- Department of Food Technology, Safety and Health	3			A:2	90
14	I002621	Gene Regulation and Epigenetics Tina Kyndt -- Department of Biotechnology	3			A:2	90
15	I002624	Biochemical and Molecular Nutrition John Van Camp -- Department of Food Technology, Safety and Health	3			A:1	90
16	I002635	Enzyme Engineering and Modelling Tom Desmet -- Department of Biotechnology	3			A:1	90
17	I002629	Plant Phenotyping Technologies Kris Audenaert -- Department of Plants and Crops	3			A:2	90
18	I002795	Aquaculture Genetics	6				180
19	I002617	Bio-imaging and Image Informatics Andre Skirtach -- Department of Biotechnology	4			A:1	120
20	I002633	Functional (Meta)genomics Inge Van Bogaert -- Department of Biotechnology	4			A:2	120
21	I002630	Functional Plant Biology Danny Geelen -- Department of Plants and Crops	4			A:2	120

22	I002634	Synthetic Biology Marjan De Mey -- Department of Biotechnology	4		A:2	120
23	I002610	Bioinformatics Wim Van Criekinge -- Department of Data Analysis and Mathematical Modelling	5		A:1	150
24	I002613	Human and Animal Biotechnology Daisy Vanrompay -- Department of Animal Sciences and Aquatic Ecology	5		A:2	150
25	I002612	Industrial Biotechnology Wim Soetaert -- Department of Biotechnology	5		A:1	150
26	I002622	Immunology Daisy Vanrompay -- Department of Animal Sciences and Aquatic Ecology	5		A:2	150
27	I002631	Industrial Fermentation Processes and Downstream Processing Wim Soetaert -- Department of Biotechnology	5		A:2	150
28	I002627	Plants and Microclimate Kathy Steppe -- Department of Plants and Crops	5		A:1	150
29	I002626	Plants, Pathogens and Pests Monica Höfte -- Department of Plants and Crops	5		A:2	150
30	I002719	Modelling and Simulation with Partial Differential Equations in Practice	5			150
31	I002623	Interphase Processes of Host-associated Micro-organisms Tom Van de Wiele -- Department of Biotechnology	5		A:1	150
32	I002614	Microbiomics Nico Boon -- Department of Biotechnology	4		A:1	120
33	I002636	Spatio-temporal Models	5			150
34	I002932	Machine Learning for Life Sciences Willem Waegeman -- Department of Data Analysis and Mathematical Modelling	5		A:1	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 cours name, using the following ISO codes:

bg: Bulgarian	de: German	es: Spanish	ja: Japanese	pl: Polish	sh: Kroatian/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 in 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