

Study Programme

Academic year 2022-2023

Faculty of Bioscience Engineering

Bachelor of Science in Bioscience Engineering -- Cell and Gene Biotechnology

Language of instruction: Dutch

Programme version 3

1	Genera	Courses			150	credits
Nr	Course		CRDT	Ref MT1	Session	Study
1	1002416	Calculus Jan Baetens Department of Data Analysis and Mathematical Modelling	6	1	A:1	180
2	1002417	Mechanics, Vibrations and Waves Dirk Poelman Department of Solid State Sciences	5	1	A:1	150
3	1002418	General and Inorganic Chemistry: Structure Rik Van Deun Department of Chemistry	5	1	A:1	150
4	1002419	Cellular and Molecular Biology Godelieve Gheysen Department of Biotechnology	4	1	A:1	120
5	1002420	Applied Botany: Morphology and Diversity Pieter De Frenne Department of Environment	5	1	A:1	150
6	1002421	Scientific Computing Jan Verwaeren Department of Data Analysis and Mathematical Modelling	5	1	A:J	150
7	1002422	Linear Algebra Willem Waegeman Department of Data Analysis and Mathematical Modelling	5	1	A:2	150
8	1002423	Thermodynamic Processes Frederik Ronsse Department of Green Chemistry and Technology	5	1	A:2	150
9	1002424	General and Inorganic Chemistry: Reactivity and Analysis Rik Van Deun Department of Chemistry	6	1	A:2	180
10	1002425	Applied Zoology: Invertebrates Luc Tirry Department of Plants and Crops	5	1	A:2	150
11	1002426	Earth Sciences Marc Van Meirvenne Department of Environment	5	1	A:2	150
12	1002427	Ecology Kathy Steppe Department of Plants and Crops	4	1	A:2	120
13	1002428	Differential Equations Bernard De Baets Department of Data Analysis and Mathematical Modelling	5	2	A:1	150
14	1002429	Electricity, Magnetism and Sensors Toon Verstraelen Department of Physics and Astronomy	5	2	A:1	150
15	1002430	Applied Zoology: Vertebrates Luc Tirry Department of Plants and Crops	4	2	A:1	120
16	1002431	Applied Botany: Physiology Kathy Steppe Department of Plants and Crops	5	2	A:1	150
17	1002432	Organic Chemistry: Structure Matthias D'hooghe Department of Green Chemistry and Technology	3	2	A:1	90
18	1002433	Biochemistry Els Van Damme Department of Biotechnology	4	2	A:1	120
19	1002434	Sustainable Development in Production and Consumption Systems Joost Dessein Department of Agricultural Economics	5	2	A:2	150
20	1002435	Probabilistic Models Bernard De Baets Department of Data Analysis and Mathematical Modelling	5	2	A:2	150
21	1002436	Microbiology Wim Soetaert Department of Biotechnology	5	2	A:2	150
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22 1002437	Organic Chemistry: Reactivity Matthias D'hooghe Department of Green Chemistry and Technology	7	2	A:2	210
23 1002438	Fluid Mechanics Niko Verhoest Department of Environment	3	2	A:2	90
24 1002439	Environmental Sciences Marc Van Meirvenne Department of Environment	4	2	A:1	120
25 1002440	Data Science Jan Verwaeren Department of Data Analysis and Mathematical Modelling	5	2	A:2	150
26 1002441	Statistical Data Processing Stijn Luca Department of Data Analysis and Mathematical Modelling	4	3	A:1	120
27 1002442	Process Engineering [en] Jo Dewulf Department of Green Chemistry and Technology	4	3	A:2	120
28 1002443	Heat and Mass Transport Jan Pieters Department of Plants and Crops	4	3	A:1	120
29 1002444	Chemical Analytical Techniques Kristof Demeestere Department of Green Chemistry and Technology	4	3	A:2	120
30 1002445	Modelling and Simulation of Biosystems [en] David Fernandes del Pozo Department of Data Analysis and Mathematical Modelling	4	3	A:2	120
31 1002446	Economics Wim Verbeke Department of Agricultural Economics	4	3	A:1	120
32 1002447	Bachelor Thesis Niko Verhoest Department of Environment	6	3	A:J	180

2	2 Courses Related to the Main Subject 30					credits	
Nr	· Course		CRDT Ref	MT1	Session	Study	
1	1002511	Biocatalysis and Enzyme Technology Tom Desmet Department of Biotechnology	5	3	A:1	150	
2	1002521	Cell Biology Godelieve Gheysen Department of Biotechnology	5	3	A:1	150	
3	1002522	Gene Technology and Molecular Diagnostics [en] Tina Kyndt Department of Biotechnology	6	3	A:1	180	
4	1002505	Microbial Ecological Processes Nico Boon Department of Biotechnology	4	3	A:1	120	
5	1002518	Applied Genetics Thomas Van Leeuwen Department of Plants and Crops	5	3	A:2	150	
6	1002523	Molecular Biology of Plant, Animal and Human Associated Bacteria [en] Monica Höfte Department of Plants and Crops	5	3	A:2	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 2023-2024 f: annually, from 2024-2025 i: annually, from 2025-2026 b: tri-annually d: bi-annually, from 2023-2024 g: bi-annually, from 2024-2025 j: bi-annually, from 2025-2026 e: tri-annually, from 2023-2024 h: tri-annually, from 2024-2025 k: tri-annually, from 2025-2026

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