Study Programme

Academic year 2022-2023

Faculty of Bioscience Engineering
Bachelor of Science in Bioscience Engineering -- Forest and Nature Management

Language of instruction: Dutch

Programme version 2

1	General Courses					150 credits
Nr	**Course**	**CRDT**	**Ref**	**MT1**	**Session**	**Study**
1	I002416 Calculus *Jan Baetens -- Department of Data Analysis and Mathematical Modelling*	6	1	A:1	180	
2	I002417 Mechanics, Vibrations and Waves *Dirk Poelman -- Department of Solid State Sciences*	5	1	A:1	150	
3	I002418 General and Inorganic Chemistry: Structure *Rik Van Deun -- Department of Chemistry*	5	1	A:1	150	
4	I002419 Cellular and Molecular Biology *Godelieve Gheysen -- Department of Biotechnology*	4	1	A:1	120	
5	I002420 Applied Botany: Morphology and Diversity *Pieter De Frenne -- Department of Environment*	5	1	A:1	150	
6	I002421 Scientific Computing *Jan Verwaeren -- Department of Data Analysis and Mathematical Modelling*	5	1	A:J	150	
7	I002422 Linear Algebra *Willem Waegeman -- Department of Data Analysis and Mathematical Modelling*	5	1	A:2	150	
8	I002423 Thermodynamic Processes *Frederik Ronsse -- Department of Green Chemistry and Technology*	5	1	A:2	150	
9	I002424 General and Inorganic Chemistry: Reactivity and Analysis *Rik Van Deun -- Department of Chemistry*	6	1	A:2	180	
10	I002425 Applied Zoology: Invertebrates *Luc Tirry -- Department of Plants and Crops*	5	1	A:2	150	
11	I002426 Earth Sciences *Marc Van Meirvenne -- Department of Environment*	5	1	A:2	150	
12	I002427 Ecology *Kathy Steppe -- Department of Plants and Crops*	4	1	A:2	120	
13	I002428 Differential Equations *Bernard De Baets -- Department of Data Analysis and Mathematical Modelling*	5	2	A:1	150	
14	I002429 Electricity, Magnetism and Sensors *Toon Verstraelen -- Department of Physics and Astronomy*	5	2	A:1	150	
15	I002430 Applied Zoology: Vertebrates *Luc Tirry -- Department of Plants and Crops*	4	2	A:1	120	
16	I002431 Applied Botany: Physiology *Kathy Steppe -- Department of Plants and Crops*	5	2	A:1	150	
17	I002432 Organic Chemistry: Structure *Matthias D'hooghe -- Department of Green Chemistry and Technology*	3	2	A:1	90	
18	I002433 Biochemistry *Els Van Damme -- Department of Biotechnology*	4	2	A:1	120	
19	I002434 Sustainable Development in Production and Consumption Systems *Joost Dessein -- Department of Agricultural Economics*	5	2	A:2	150	
20	I002435 Probabilistic Models *Bernard De Baets -- Department of Data Analysis and Mathematical Modelling*	5	2	A:2	150	

Nr	Course		CRDT	Ref	MT1	Session	Study
21	I002436	Microbiology	5	2		A:2	150
	Wim Soetaert -- Department of Biotechnology						
22	I002437	Organic Chemistry: Reactivity	7	2		A:2	210
	Matthias D'hooghe -- Department of Green Chemistry and Technology						
23	I002438	Fluid Mechanics	3	2		A:2	90
	Niko Verhoest -- Department of Environment						
24	I002439	Environmental Sciences	4	2		A:1	120
	Marc Van Meirvenne -- Department of Environment						
25	I002440	Data Science	5	2		A:2	150
	Jan Verwaeren -- Department of Data Analysis and Mathematical Modelling						
26	I002441	Statistical Data Processing	4	3		A:1	120
	Stijn Luca -- Department of Data Analysis and Mathematical Modelling						
27	I002442	Process Engineering [en]	4	3		A:2	120
	Jo Dewulf -- Department of Green Chemistry and Technology						
28	I002443	Heat and Mass Transport	4	3		A:1	120
	Jan Pieters -- Department of Plants and Crops						
29	I002444	Chemical Analytical Techniques	4	3		A:2	120
	Kristof Demeestere -- Department of Green Chemistry and Technology						
30	I002445	Modelling and Simulation of Biosystems [en]	4	3		A:2	120
	David Fernandes del Pozo -- Department of Data Analysis and Mathematical Modelling						
31	I002446	Economics	4	3		A:1	120
	Wim Verbeke -- Department of Agricultural Economics						
32	I002447	Bachelor Thesis	6	3		A:J	180
	Niko Verhoest -- Department of Environment						

2 Courses Related to the Main Subject — 30 credits

Nr	Course		CRDT	Ref	MT1	Session	Study
1	I002455	Soil Properties and Soil Processes	5	3		A:1	150
	Stefaan De Neve -- Department of Environment						
2	I002450	Remote Sensing	5	3		A:1	150
	Frieke Vancoillie -- Department of Environment						
3	I002457	Vegetation Science	3	3		A:1	90
	Lander Baeten -- Department of Environment						
4	I002458	Basics of Forest and Wood Science	6	3		A:J	180
	Kris Verheyen -- Department of Environment						
5	I002751	Principles of Quantitative Water Management	3	3		A:2	90
	Niko Verhoest -- Department of Environment						
6	I002414	Geographic Information Systems: Basics and Applications	5	3		A:2	150
	Frieke Vancoillie -- Department of Environment						
7	I002461	Integrated Practicum Forest and Nature	3	3		A:2	90
	Kris Verheyen -- Department of Environment						

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