

Faculty of Bioscience Engineering

Bachelor of Science in Bioscience Engineering -- Environmental Technology

Language of instruction: Dutch

Programme version 5

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 Elena Torfs -- 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 Dirk Reheul -- 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 Frank Nevens -- Department of Plants and Crops	5		2	A:2	150
20	I002435 Probabilistic Models Bernard De Baets -- Department of Data Analysis and Mathematical Modelling	5		2	A:2	150
21	I002436 Microbiology Wim Soetaert -- Department of Biotechnology	5		2	A:2	150

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

2 Courses Related to the Main Subject 30 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	I002503 Environmental Chemistry Christophe Walgraeve -- Department of Green Chemistry and Technology	6		3	A:1	180
2	I002504 Applied Freshwater Ecology [en] Peter Goethals -- Department of Animal Sciences and Aquatic Ecology	3		3	A:1	90
3	I002505 Microbial Ecological Processes Jo De Vrieze -- Department of Biotechnology	4		3	A:1	120
4	I002701 Clean Technology: Theory and Concepts [en] Pieter Nachtergaele -- Department of Green Chemistry and Technology	3		3	A:1	90
5	I002507 Environmental Technology: Solid Waste Streams Frederik Ronsse -- Department of Green Chemistry and Technology	4		3	A:2	120
6	I002508 Environmental Technology: Water [en] Korneel Rabaey -- Department of Biotechnology	6		3	A:2	180
7	E039060 Sustainable Energy and Rational Use of Energy [en] Jeroen Beeckman -- Department of Electronics and Information Systems	4		3	A:2	120

Teaching languages

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: 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 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