

Faculty of Bioscience Engineering

Bachelor of Science in Bioscience Engineering -- Land, Water and Climate

Language of instruction: Dutch

Programme version 1

1 General Courses 150 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	I002416 Calculus <i>Jan Baetens -- Department of Data Analysis and Mathematical Modelling</i>	6		1	A:1	180
2	I002417 Mechanics, Vibrations and Waves <i>Dirk Poelman -- Department of Solid State Sciences</i>	5		1	A:1	150
3	I002418 General and Inorganic Chemistry: Structure <i>Rik Van Deun -- Department of Chemistry</i>	5		1	A:1	150
4	I002419 Cellular and Molecular Biology <i>Godelieve Gheysen -- Department of Biotechnology</i>	4		1	A:1	120
5	I002420 Applied Botany: Morphology and Diversity <i>Pieter De Frenne -- Department of Environment</i>	5		1	A:1	150
6	I002421 Scientific Computing <i>Jan Verwaeren -- Department of Data Analysis and Mathematical Modelling</i>	5		1	A:J	150
7	I002422 Linear Algebra <i>Willem Waegeman -- Department of Data Analysis and Mathematical Modelling</i>	5		1	A:2	150
8	I002423 Thermodynamic Processes <i>Frederik Ronsse -- Department of Green Chemistry and Technology</i>	5		1	A:2	150
9	I002424 General and Inorganic Chemistry: Reactivity and Analysis <i>Rik Van Deun -- Department of Chemistry</i>	6		1	A:2	180
10	I002425 Applied Zoology: Invertebrates <i>Luc Tirry -- Department of Plants and Crops</i>	5		1	A:2	150
11	I002426 Earth Sciences <i>Marc Van Meirvenne -- Department of Environment</i>	5		1	A:2	150
12	I002427 Ecology <i>Kathy Steppe -- Department of Plants and Crops</i>	4		1	A:2	120
13	I002428 Differential Equations <i>Bernard De Baets -- Department of Data Analysis and Mathematical Modelling</i>	5		2	A:1	150
14	I002429 Electricity, Magnetism and Sensors <i>Toon Verstraeten -- Department of Physics and Astronomy</i>	5		2	A:1	150
15	I002430 Applied Zoology: Vertebrates <i>Luc Tirry -- Department of Plants and Crops</i>	4		2	A:1	120
16	I002431 Applied Botany: Physiology <i>Kathy Steppe -- Department of Plants and Crops</i>	5		2	A:1	150
17	I002432 Organic Chemistry: Structure <i>Matthias D'hooghe -- Department of Green Chemistry and Technology</i>	3		2	A:1	90
18	I002433 Biochemistry <i>Els Van Damme -- Department of Biotechnology</i>	4		2	A:1	120
19	I002434 Sustainable Development in Production and Consumption Systems <i>Joost Dessein -- Department of Agricultural Economics</i>	5		2	A:2	150
20	I002435 Probabilistic Models <i>Bernard De Baets -- Department of Data Analysis and Mathematical Modelling</i>	5		2	A:2	150
21	I002436 Microbiology <i>Wim Soetaert -- Department of Biotechnology</i>	5		2	A:2	150

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

2 Courses Related to the Main Subject 30 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	I002448 Soil Science <i>Stefaan De Neve -- Department of Environment</i>	5		3	A:1	150
2	I002449 Hydrological Processes and Hydrometry <i>Niko Verhoest -- Department of Environment</i>	3		3	A:1	90
3	I002450 Remote Sensing <i>Frieke Vancoillie -- Department of Environment</i>	5		3	A:1	150
4	I002451 Land–Atmosphere Interactions [en] <i>Diego Miralles -- Department of Environment</i>	4		3	A:1	120
5	I002452 Geographic Information Systems: Basics <i>Frieke Vancoillie -- Department of Environment</i>	3		3	A:2	90
6	I002453 Biogeochemical Cycles <i>Steven Sleutel -- Department of Environment</i>	5		3	A:2	150
7	I002454 Geostatistics [en] <i>Ellen Van De Vijver -- Department of Environment</i>	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 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 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