

Study Programme

Academic year 2023-2024

Faculty of Sciences Bachelor of Science in Physics and Astronomy

Language of instruction: Dutch Programme version 9

1	General	Courses			162	credits
Nr	Course		CRDT	Ref MT1	Session	Studv
1	C000857	Mechanics Matthieu Boone Department of Physics and Astronomy	6	1	A:1	180
2	C002022	Waves and Optics	6	1		180
3	C000537	Electricity and Magnetism	6	1		180
4	C003133	Introduction to Theoretical Physics	6	1		180
5	C000973	Physics Laboratory 1	6	1		180
6	C003574	Analysis I Jasson Vindas Diaz Department of Mathematics: Analysis, Logic and Discrete Mathematics	6	1		180
7	C003620	Analysis II	6	1		180
8	C003554	Linear Algebra and Geometry I Arne Van Antwerpen Department of Mathematics: Algebra and Geometry	6	1		180
9	C003717	Programming	6	1	A:1	180
10	C001390	Chemistry	6	1		180
11	C002240	Quantum Mechanics 1 Jan Ryckebusch Department of Physics and Astronomy	6	2	A:1	180
12	C000104	Thermal Physics Natalie Jachowicz Department of Physics and Astronomy	6	2	A:2	180
13	C002133	Electromagnetism	6	2		180
14	C001369	Material Physics Diederik Depla Department of Solid State Sciences	6	2	A:2	180
15	C000983	Physics Laboratory 2	6	2		180
16	C001195	Statistics and Data Processing Arjen van der Wel Department of Physics and Astronomy	6	2	A:1	180
17	C001887	Mathematical Methods in Physics	6	2		180
18	C003016	Introduction to Astronomy	6	2		180
19	C002994	Extragalactic Astronomy	6	2		180
20	C002245	Quantum Mechanics 2 Dimitri Van Neck Department of Physics and Astronomy	6	3	A:1	180
21	C002462	Theory of Relativity Karel Van Acoleyen Department of Physics and Astronomy	6	3	A:1	180
22	C002461	Statistical Physics 1	6	3		180
23	C000919	Introduction to Atomic and Molecular Physics Jonas Joos Department of Solid State Sciences	6	3	A:2	180
24	C001063	Solid State Physics Christophe Detavernier Department of Solid State Sciences	6	3	A:2	180
25	C002100	Subatomic Physics 1 [en] Didar Dobur Department of Physics and Astronomy	6	3	A:2	180
26	C003005	Physics of Galaxies	6	3		165
27	C002351	Bachelorproject	6	3		180

1	C000925	Electronics	6	2	A:2	180
		Dirk Poelman Department of Solid State Sciences				
2	C000838	Thin Films and Surface Physics	6	3		180
3	C003938	Introductory Biophysics	6	3		180

2.1.2 Elective Courses UGent

Subscribe to no more than 18 credit units from the bachelor's pogrammes offered by UGent. The course units are preferably chosen from the course units offered by the Faculty of Sciences and / or the Faculty of Engineering and Architecture. The course 'Powerful Learning Environments' from the educational track can also be chosen here. At most 6 credits can be chosen from cours units offered by other faculties. The course units are distributed over the first standard learning path as follows:

6 credit units in year 2,no more than 12 credit units in year 3.

2.2 Educational Track

Nr			CRDT		Session	Study
1	H002169	Powerful Learning Environments Bram De Wever Department of Educational Studies	6	2	A:1	180
2	H002175	Teaching Methodology: Sciences Katrien Strubbe Department of Chemistry	6	3	A:J	180
3	H002170	Reference Internship: Sciences Katrien Strubbe Department of Chemistry	3	3	A:J	90

2.2.1 Elective Courses UGent

Subscribe to 3 credit units from the module 'Physics and Astronomy' or from the bachelor's programmes offered by Ghent University (preferably offered by the Faculty of Sciences and / or the Faculty of Engineering and Architecture).

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: Norwegia	n 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 2024-2025	f: annually, from 2025-2026	i: annually, from 2026-2027
b: tri-annually	d: bi-annually, from 2024-2025	g: bi-annually, from 2025-2026	j: bi-annually, from 2026-2027
	e: tri-annually, from 2024-2025	h: tri-annually, from 2025-2026	k: tri-annually, from 2026-2027

18 credits