

## Master of Science in Physics and Astronomy

Language of instruction: Dutch

Programme version 17

### 1 General Courses 55 credits

Full-time standard learning track: Students can choose which of these course units will be taken in the first respectively the second year of study; together with the elective courses, a total of 60 credits is taken in the first and a total of 30 credits in the second year of study.

#### 1.1 General Courses 36 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	C004503 Solid State and Nano Physics [en] <i>Christophe Detavernier -- Department of Solid State Sciences</i>	6			A:1	180
2	C004504 Computational Physics [en] <i>Toon Verstraelen -- Department of Physics and Astronomy</i>	6			A:1	180
3	C004502 Subatomic Physics [en] <i>Ben Page -- Department of Physics and Astronomy</i>	6			A:1	180
4	C004505 Theoretical and Numerical Astrophysics [en] <i>Maarten Baes -- Department of Physics and Astronomy</i>	6			A:1	180
5	C004506 Quantum Field Theory [en] <i>Thomas Mertens -- Department of Physics and Astronomy</i>	6			A:1	180
6	C004451 General Relativity [en] <i>Archisman Ghosh -- Department of Physics and Astronomy</i>	6			A:1	180

#### 1.2 Professional Skills 19 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	C004559 Internship <i>Matthieu Boone -- Department of Physics and Astronomy</i>	15			A:J	450
2	C004519 Professional Skills for Scientists [en, nl] <i>Philippe Smet -- Department of Solid State Sciences</i>	4			(A:J) <sup>c</sup>	120

### 2 Elective Courses 35 credits

Subscribe to 35 credit units from no less than 1 and no more than 3 modules from the following list. Subject to approval by the faculty.

#### 2.1 Elective Courses Physics & Astronomy

Subscribe to no less than 24 credit units from the elective course lists 2.1 through 2.5 from the MSc in Physics & Astronomy (English taught programme).

Please note: some elective courses are offered every two years or require specific initial competences. Keep this in mind when choosing your elective courses.

#### 2.2 Elective Courses Society, Sustainability and Economy

Subscribe to no more than 11 credit units from the elective course list 2.7 from the MSc in Physics & Astronomy (English taught programme).

#### 2.3 Elective Courses UGent or other Universities

Subscribe to courses for no more than 11 credit units to be chosen from the Bachelor and/or Master courses of UGent including the [Ghent University elective courses](#), or from an [Erasmus+ partner university](#).

### 3 Master's Dissertation 30 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	C002315 Master's Dissertation <i>N. N.</i>	30		2	A:J	900

## 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 2025-2026	f: annually, from 2026-2027	i: annually, from 2027-2028
b: tri-annually	d: bi-annually, from 2025-2026	g: bi-annually, from 2026-2027	j: bi-annually, from 2027-2028
	e: tri-annually, from 2025-2026	h: tri-annually, from 2026-2027	k: tri-annually, from 2027-2028