

Study Programme

Academic year 2025-2026

Faculty of Sciences

Preparatory Course Master of Science in Physics and Astronomy

Language of instruction: Dutch Programme version 1

General Courses

Subscribe to 1 module from the following list. Subject to approval by the faculty.

1.1 For intake of Bachelor Mathematics

Subscribe to no less than 58 and no more than 82 credit units from the following list.

Nr	Course		CRDT	Ref	MT1	Session	Study
1	C004208	Waves and Optics Henk Vrielinck Department of Solid State Sciences	5			A:2	150
2	C004218	Physics and Astronomy Laboratory 2 [en, nl] Bartel Van Waeyenberge Department of Solid State Sciences	6			A:J	180
3	C004212	Python for Scientists [en] Toon Verstraelen Department of Physics and Astronomy	5			A:1	150
4	C002240	Quantum Mechanics 1 Jan Ryckebusch Department of Physics and Astronomy	6	а		A:1	180
5	C004214	Galaxies Ilse De Looze Department of Physics and Astronomy	6	а		A:2	180
6	C004215	Materials Physics Jolien Dendooven Department of Solid State Sciences	5			A:2	150
7	C004216	Relativity and Electromagnetism [en] Archisman Ghosh Department of Physics and Astronomy	6	а		A:2	180
8	C002245	Quantum Mechanics 2 Nick Bultinck Department of Physics and Astronomy	6	а		A:1	180
9	C004220	Statistical Physics Jan Ryckebusch Department of Physics and Astronomy	6			A:1	180
10	C004221	Structure of the Universe Arjen van der Wel Department of Physics and Astronomy	6			A:1	180
11	C004222	Atomic and Molecular Physics Jonas Joos Department of Solid State Sciences	5			A:2	150
12	C001063	Solid State Physics Christophe Detavernier Department of Solid State Sciences	6			A:2	180
13	C004223	Nuclear Physics [en] Natalie Jachowicz Department of Physics and Astronomy	4			A:2	120
14	C004224	Elementary Particle Physics [en] Didar Dobur Department of Physics and Astronomy	4			A:2	120
15	C004228	Bachelor's Project Physics and Astronomy [en, nl] Matthieu Boone Department of Physics and Astronomy	6			A:J	180

1.2 Intake for Bachelor Engineering Physics

Nr	Course		CRDT	Ref	MT1	Session	Study
1	C004218	Physics and Astronomy Laboratory 2 [en, nl] Bartel Van Waeyenberge Department of Solid State Sciences	6			A:J	180
2	C004212	Python for Scientists [en] Toon Verstraelen Department of Physics and Astronomy	5			A:1	150
3	C004214	Galaxies Ilse De Looze Department of Physics and Astronomy	6			A:2	180

4	C004217	Groups and Representations Frank Verstraete Department of Physics and Astronomy	4	A:2	120
5	C004221	Structure of the Universe Arjen van der Wel Department of Physics and Astronomy	6	A:1	180
6	C004222	Atomic and Molecular Physics Jonas Joos Department of Solid State Sciences	5	A:2	150
7	C004223	Nuclear Physics [en] Natalie Jachowicz Department of Physics and Astronomy	4	A:2	120
8	C004224	Elementary Particle Physics [en] Didar Dobur Department of Physics and Astronomy	4	A:2	120

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:

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	
b: tri-annually	

c: annually, from 2026-2027 d: bi-annually, from 2026-2027 e: tri-annually, from 2026-2027 f: annually, from 2027-2028 g: bi-annually, from 2027-2028 h: tri-annually, from 2027-2028 i: annually, from 2028-2029 j: bi-annually, from 2028-2029 k: tri-annually, from 2028-2029