

# Study Programme

Academic year 2025-2026

Programme jointly offered by Ghent University, KU Leuven Master of Science in Space Studies

Language of instruction: English

Programme version 9

1 General Courses 29 credits

Subscribe to 29 credit units from the following list, with 4 credit units with reference a. Students with a degree in Law, Notarial studies, Criminology or (Applied) Economics take "Introduction to Exact Sciences and Technology".

Students with a degree in Sciences, Applied (Biological) Sciences or Medicine take "Introduction to Law, Policy, Business and Management".

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Nr	Course		CRDT	Ref	MT1	Session	Study
1	C004439	Introduction to Exact Sciences and Technology Sarah Baatout Department of Biotechnology	4	а	1	A:1	110
2	C004438	Introduction to Law, Policy, Business and Management Philip De Man KU Leuven	4	а	1	A:1	110
3	C003663	Fundamental Science from Space Hugues Sana KU Leuven	5		1	A:1	130
4	C003662	Engineering Design of Space Missions and Spacecraft Components Dirk Vandepitte KU Leuven	5		1	A:1	130
5	C004556	Specialised Lectures in Earth Observation  Alain De Wulf Department of Geography	5		1	A:2	130
6	C003741	Questions in Space Studies Hugues Sana KU Leuven	5		1	A:J	130
7	C003661	Space Law, Policy, Business and Management Philip De Man KU Leuven	5		1	A:1	130

2 Majors 16 credits

Subscribe to 16 credit units from 1 major from the following list. Subject to approval by the faculty. It is recommended that students with a degree in Law, Notarial studies, Criminology or (Applied) Economics take Major Subject "Space Law, Policy, Business and Management".

Students with a degree in Sciences, Applied (Biological) Sciences or Medicine are recommended to choose between Major Subjects

## 2.1 Major Space Law, Policy, Business and Management

"Space Sciences" and "Space Technology and Applications"

16 credits

Subscribe to no less than 10 and no more than 16 credit units from the following list.

Nr	Course		CRDT	Ref MT1	Session	Study
1	C004558	The Law of International Organisations  Jan Wouters KU Leuven	6	1	A:1	160
2	C002835	Introduction to Management and Strategy Cindy Lopes Bento KU Leuven	4	1	A:2	110
3	C003272	Advanced Topics in Space Law, Policy, Business and Management Philip De Man KU Leuven	6	1	A:2	160
4	C003660	Space Organisations Jan Wouters KU Leuven	4	1	A:2	110

#### 2.1.1 Elective Courses Flemish Community

On the condition of their being appropriate for the master's dissertation, courses can be selected from other master's programmes of universities of the Flemish Community up to a total amount of 12 credits, 6 of which at most can be taken from study programmes of other universities than KU Leuven and UGent.'

#### 2.2 Major Space Sciences

16 credits

Subscribe to 16 credit units from no less than 1 and no more than 3 modules from the following list.

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#### 2.2.1 Space Sciences

Subscribe to no more than 16 credit units from the following list.

Nr	Course	, and the second	CRDT	Ref MT1	Session	Study
1	C002839	Advanced Topics in Life Sciences in Space Sarah Baatout Department of Biotechnology	4	1	A:2	110
2	C002851	Astrophysics from Space Maarten Baes Department of Physics and Astronomy	4	1	A:2	110
3	C002850	Space Weather Jasmina Magdalenić Zhukov KU Leuven	4	1	A:2	110
4	C002840	Synchrotron Radiation Research in Earth and Planetary Sciences  Laszlo Vincze Department of Chemistry	4	1	A:2	110
5	C004557	Earth Observation Gabriëlle De Lannoy KU Leuven	5	1	A:1	130

## 2.2.2 Space Technology and Applications

Subscribe to no more than 16 credit units from the following list.

Nr	Course		CRDT	Ref	MT1	Session	Study
1	C002857	Spacecraft Technology and Space Environment  Johan Steelant KU Leuven	5		1	A:1	130
2	C002854	Robotics Herman Bruyninckx KU Leuven	4		1	A:2	110
3	C002853	Reliability of Space Systems  David Moens KU Leuven	4		1	A:2	110
4	C004481	Satellite Navigation and Communications Sofie Pollin KU Leuven	3		1	A:2	90

### 2.2.3 Elective Courses Flemish Community

Subscribe to no more than 6 credit units from the study programmes of the universities of the Flemish Community.

## 2.3 Major Space Technology and Applications

16 credits

Subscribe to 16 credit units from no less than 1 and no more than 3 modules from the following list. Students choose 16 credits from the first module, or a combination of courses from the different modules.

## 2.3.1 Space Technology and Applications

Subscribe to no more than 16 credit units from the following list.

Nr	Course		CRDT	Ref MT1	Session	Study
1	C002857	Spacecraft Technology and Space Environment  Johan Steelant KU Leuven	5	1	A:1	130
2	C002854	Robotics Herman Bruyninckx KU Leuven	4	1	A:2	110
3	C002853	Reliability of Space Systems David Moens KU Leuven	4	1	A:2	110
4	C004481	Satellite Navigation and Communications Sofie Pollin KU Leuven	3	1	A:2	90

## 2.3.2 Space Sciences

Subscribe to no more than 16 credit units from the following list.

Νı	Course		CRDT	Ref MT1	Session	Study
1	C002839	Advanced Topics in Life Sciences in Space Sarah Baatout Department of Biotechnology	4	1	A:2	110
2	C002851	Astrophysics from Space Maarten Baes Department of Physics and Astronomy	4	1	A:2	110
3	C002850	Space Weather Jasmina Magdalenić Zhukov KU Leuven	4	1	A:2	110
4	C002840	Synchrotron Radiation Research in Earth and Planetary Sciences  Laszlo Vincze Department of Chemistry	4	1	A:2	110
5	C004557	Earth Observation  Gabriëlle De Lannoy KU Leuven	5	1	A:1	130

## 2.3.3 Elective Courses Flemish Community

Subscribe to no more than 6 credit units from the study programmes of the universities of the Flemish Community.

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Nr Course	CRDT Re	ef MT1	Session	Study
1 C002455 Master's Dissertation [nl, en]	15	1	A:J	450
Hugues Sana KU Leuven				

15 credits

#### Teaching

Master's Dissertation

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

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