

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".

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

2.1 Major Space Law, Policy, Business and Management

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 <i>Jan Wouters -- KU Leuven</i>	6		1	A:1	160
2	C002835 Introduction to Management and Strategy <i>Cindy Lopes Bento -- KU Leuven</i>	4		1	A:2	110
3	C003272 Advanced Topics in Space Law, Policy, Business and Management <i>Philip De Man -- KU Leuven</i>	6		1	A:2	160
4	C003660 Space Organisations <i>Jan Wouters -- KU Leuven</i>	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.

Students choose 16 credits from the first module, or a combination of courses from the different modules.

2.2.1 Space Sciences

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

Nr	Course	CRDT	Ref	MT1	Session	Study
1	C002839 Advanced Topics in Life Sciences in Space <i>Sarah Baatout -- Department of Biotechnology</i>	4		1	A:2	110
2	C002851 Astrophysics from Space <i>Maarten Baes -- Department of Physics and Astronomy</i>	4		1	A:2	110
3	C002850 Space Weather <i>Jasmina Magdalenic Zhukov -- KU Leuven</i>	4		1	A:2	110
4	C002840 Synchrotron Radiation Research in Earth and Planetary Sciences <i>Laszlo Vincze -- Department of Chemistry</i>	4		1	A:2	110
5	C004557 Earth Observation <i>Gabriëlle De Lannoy -- KU Leuven</i>	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 <i>Johan Steelant -- KU Leuven</i>	5		1	A:1	130
2	C002854 Robotics <i>Herman Bruyninckx -- KU Leuven</i>	4		1	A:2	110
3	C002853 Reliability of Space Systems <i>David Moens -- KU Leuven</i>	4		1	A:2	110
4	C004481 Satellite Navigation and Communications <i>Sofie Pollin -- KU Leuven</i>	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 <i>Johan Steelant -- KU Leuven</i>	5		1	A:1	130
2	C002854 Robotics <i>Herman Bruyninckx -- KU Leuven</i>	4		1	A:2	110
3	C002853 Reliability of Space Systems <i>David Moens -- KU Leuven</i>	4		1	A:2	110
4	C004481 Satellite Navigation and Communications <i>Sofie Pollin -- KU Leuven</i>	3		1	A:2	90

2.3.2 Space Sciences

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

Nr	Course	CRDT	Ref	MT1	Session	Study
1	C002839 Advanced Topics in Life Sciences in Space <i>Sarah Baatout -- Department of Biotechnology</i>	4		1	A:2	110
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4	C002840 Synchrotron Radiation Research in Earth and Planetary Sciences <i>Laszlo Vincze -- Department of Chemistry</i>	4		1	A:2	110
5	C004557 Earth Observation <i>Gabriëlle De Lannoy -- KU Leuven</i>	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.

Nr	Course	CRDT	Ref	MT1	Session	Study
1	C002455 Master's Dissertation [nl, en] <i>Hugues Sana -- KU Leuven</i>	15		1	A:J	450

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 2027-2028	f: annually, from 2028-2029	i: annually, from 2029-2030
b: tri-annually	d: bi-annually, from 2027-2028	g: bi-annually, from 2028-2029	j: bi-annually, from 2029-2030
	e: tri-annually, from 2027-2028	h: tri-annually, from 2028-2029	k: tri-annually, from 2029-2030