

Faculty of Psychology and Educational Sciences, Faculty of Sciences

Master of Science in Teaching in Science and Technology (abridged programme) -- Physics and Astronomy

Language of instruction: Dutch

Programme version 6

1 Teaching Component 60 credits

1.1 Programme Pathway Theoretical Education 18 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	H002169 Powerful Learning Environments Bram De Wever -- Department of Educational Studies	6		1	A:1, K:1, B:1	180
2	H002197 The Teacher within School and Society Melissa Tuytens -- Department of Educational Studies	4		1	A:1, B:1, K:1	120
3	H002198 Psychology of Adolescence Wim Beyers -- Department of Developmental, Personality and Social Psychology	4		1	A:1, K:1, B:1	120
4	H002196 Classroom Management and Reflection Tijs Rotsaert -- Department of Educational Studies	4		1	A:2, B:2, K:2	120

1.2 Programme Pathway Teaching Methodology 12 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	H002175 Teaching Methodology: Sciences Katrien Strubbe -- Department of Chemistry	6		1	A:J	180
2	H002224 Teaching Methodology Physics Stefaan Cottenier -- Department of Electromechanical, Systems and Metal Engineering	6		1	C:J	180

1.3 Programme Pathway Internship 15 credits

Subscribe to 15 credit units from the following list, with

- 4 credit units from the courses with reference a, if no additional Teaching Methodology Course is taken in Module 2 of the Elective Courses
- 4 credit units from the courses with reference b, if an additional Teaching Methodology Course is taken in Module 2 of the Elective Courses

Nr	Course	CRDT	Ref	MT1	Session	Study
1	H002170 Reference Internship: Sciences Katrien Strubbe -- Department of Chemistry	3		1	A:J	90
2	H002299 Internship A: STEM Katrien Strubbe -- Department of Chemistry	4		1	A:J	100
3	H002316 Internship B: Physics Philippe Smet -- Department of Solid State Sciences	4		1	A:J	100
4	H002335 Internship C: Physics Philippe Smet -- Department of Solid State Sciences	4	a	1	A:J	100
5	H002336 Internship C: Mathematics Hendrik Van Maldeghem -- Department of Mathematics: Algebra and Geometry	4	b	1	A:J	100

1.4 Programme Pathway Practice Oriented Educational Research Project 9 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	H002464 Practice Oriented Educational Research Project	9		1	J:J	250

1.5 Elective Courses 6 credits

Subscribe to 6 credit units from one or different modules from the following list. Subject to approval by the faculty.

1.5.1 Module 1: List of Elective Courses

The courses with reference b can only be chosen if the course with reference a has been passed.

Nr	Course	CRDT	Ref	MT1	Session	Study
1	H001608 Movement and Sports: Now and Later Veerle Segers -- Department of Movement and Sports Sciences	4		1	A:2	120
2	H001977 Coaching and Diversity Elisabeth De Schauwer -- Department of Special Education	3	UKV	1	A:J	90
3	A005503 Context and Nuance. A Critical Reflection on Current Topics Stef Craps -- Department of Literary Studies	6	UKV	1	A:1	180
4	H001838 Culture, Media and Education Kris Rutten -- Department of Educational Studies	4		1	A:2	120
5	H002150 Digital Learning Environments Tammy Schellens -- Department of Educational Studies	3		1	A:1	90
6	C004225 Physics for Citizens Steven Caluwaerts -- Department of Physics and Astronomy	4	UKV	1	A:1	120
7	D012276 Introduction to Flemish Sign Language Beatrijs Wille -- Department of Linguistics	4		1	A:1	120
8	H000358 Learning Psychology Yannick Boddez -- Department of Experimental Clinical and Health Psychology	5		1	A:2	150
9	H000124 Learning Disabilities Petra Warreyn -- Department of Experimental Clinical and Health Psychology	5		1	A:2	150
10	H002128 Methods to Facilitate Socratic Group Discussions in the Educational Context Veerle Provoost -- Department of Philosophy and Moral Sciences	4		1	A:2	120
11	H002213 Motivational Psychology Joachim Waterschoot -- Department of Developmental, Personality and Social Psychology	5		1	A:1	150
12	K000245 Sociology of Education Mieke Van Houtte -- Department of Sociology	5		1	A:2	150
13	E099210 Essentials of Artificial Intelligence: a Beginner's Guide [en] Joni Dambre -- Department of Electronics and Information Systems	3	UKV	1	A:1	90
14	H002246 Theory and Practice of Content and Language Integrated Learning Ulrike Vogl -- Department of Linguistics	3	a	1	A:1	90
15	H002344 Linguistic Proficiency in Content and Language Integrated Learning: Dutch Bart Deygers -- Department of Translation, Interpreting and Communication	3	b	1	A:2	90
16	H002247 Linguistic Proficiency in Content and Language Integrated Learning: English [en] June Eyckmans -- Department of Translation, Interpreting and Communication	3	b	1	A:2	90
17	H002248 Linguistic Proficiency in Content and Language Integrated Learning: French [fr] Pascale Hadermann -- Department of Linguistics	3	b	1	A:2	90
18	H002249 Linguistic Proficiency in Content and Language Integrated Learning: German [de] Gunther Martens -- Department of Literary Studies	3	b	1	A:2	90
19	H002283 Teaching Methodology: General Subjects for Technical and Vocational Education, including Internship Katrien Strubbe -- Department of Chemistry	6		1	A:2	160

1.5.2 Module 2: Additional Course Teaching Methodology

Taking an additional Teaching Methodology Course implies taking the corresponding Internship in the Programme Pathway Internship. Students who are able to demonstrate that they have acquired at least 30 academic credits in another specific domain (60 credits if it concerns a language), can submit a request to the Curriculum Manager for the Master of Education to take the corresponding teaching methodology course. If the Curriculum Manager agrees, the Programme Pathway Internship needs to be revised allowing a student to follow an "Internship C" in this additional teaching methodology.

Nr	Course	CRDT	Ref	MT1	Session	Study
1	H002226 Teaching Methodology: Mathematics I Hendrik Van Maldeghem -- Department of Mathematics: Algebra and Geometry	6		1	A:J	180

1.5.3 Module 3: Additional Internship

Nr	Course	CRDT	Ref	MT1	Session	Study
1	H002332 Short Additional Internship Katrien Strubbe -- Department of Chemistry	3		1	A:J	80
2	H002333 Extended Additional Internship Katrien Strubbe -- Department of Chemistry	6		1	A:J	160

1.5.4 Module 4: an Elective Course related to Education

Subscribe to a course of no less than 6 credit units, related to education, and lectured at a university belonging to the Flemish Community (see also: [Enlight Elective Courses](#)), subject to approval by the faculty.

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