

Faculty of Psychology and Educational Sciences, Faculty of Sciences

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

Language of instruction: Dutch

Programme version 7

1 Teaching Component 60 credits

1.1 Programme Pathway Theoretical Education 18 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	H002476 Powerful Learning Environments <i>Bram De Wever -- Department of Educational Studies</i>	6		1	A:1	180
2	H002478 The Student: Development and Motivation <i>Wim Beyers -- Department of Developmental, Personality and Social Psychology</i>	6		1	A:1	180
3	H002477 The Teacher within Class, School and Society <i>Melissa Tuytens -- Department of Educational Studies</i>	6		1	A:2	180

1.2 Programme Pathway Teaching Methodology 18 credits

Subscribe to 18 credit units from the following list, with

- 9 credit units from the courses with reference a,
- 9 credit units from the courses with reference b

Only Bachelors in mathematics with minor in physics can take the Teaching methodology course STEM focus physics.

Only Bachelors in mathematics with a minor in computer science can take Teaching methodology STEM focus computer science.

If you are able to demonstrate that you have acquired at least 30 academic credits in another specific domain (60 credits if it concerns a language), you can submit a request to educatievemaister@ugent.be to take the corresponding teaching methodology course. When you are allowed to do so, then you must take the corresponding internship in the Programme Pathway Internship.

Nr	Course	CRDT	Ref	MT1	Session	Study
1	H002493 Teaching Methodology: Mathematics <i>Hendrik Van Maldeghem -- Department of Applied Mathematics and Computer Science</i>	9	a	1	J:J	270
2	H002603 Teaching Methodology: STEM Focus Physics <i>Stefaan Cottenier -- Department of Electromechanical, Systems and Metal Engineering</i>	9	b	1	J:J	270
3	H002604 Teaching Methodology: STEM Focus Computer Science <i>Kris Coolsaet -- Department of Applied Mathematics and Computer Science</i>	9	b	1	J:J	270
4	H002608 Teaching Methodology: STEM Focus STEM <i>Katrien Strubbe -- Department of Chemistry</i>	9	b	1	J:J	270

1.3 Programme Pathway Internship 18 credits

You must take 2 Internship courses each one corresponding with one of the Teaching Methodology Courses chosen in the Programme Pathway Teaching Methodology.

Have you received permission to take a different teaching methodology course in the Programme Pathway Teaching Methodology, please contact educatievemaister@ugent.be to have the corresponding internship added to your curriculum.

Nr	Course	CRDT	Ref	MT1	Session	Study
1	H002494 Internship Mathematics <i>Hendrik Van Maldeghem -- Department of Applied Mathematics and Computer Science</i>	9		1	J:J	270
2	H002611 Internship STEM Focus Physics <i>Philippe Smet -- Department of Solid State Sciences</i>	9		1	J:J	270
3	H002614 Internship STEM Focus Computer Science <i>Kris Coolsaet -- Department of Applied Mathematics and Computer Science</i>	9		1	J:J	270
4	H002609 Internship STEM Focus STEM <i>Katrien Strubbe -- Department of Chemistry</i>	9		1	J:J	270

1.4 Programme Pathway Practice Oriented Educational Research Project 6 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
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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 2026-2027	f: annually, from 2027-2028	i: annually, from 2028-2029
b: tri-annually	d: bi-annually, from 2026-2027	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