

Faculty of Psychology and Educational Sciences, Faculty of Bioscience Engineering

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

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, B:1, K:1	180
2	H002478 The Student: Development and Motivation <i>Wim Beyers -- Department of Developmental, Personality and Social Psychology</i>	6		1	A:1, K:1, B:1	180
3	H002477 The Teacher within Class, School and Society <i>Melissa Tuytens -- Department of Educational Studies</i>	6		1	K:2, A:2, B: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.

Your prior Education determines which Teaching Methodology Course with reference b you have direct access to.

- Bachelor in de bio-ingenieurswetenschappen: Teaching Methodology Biology, Chemistry, Physics or Mathematics
- Bachelor or master in de bio-ingenieurswetenschappen, Main Subjects/Majors 'bos- en natuurbeheer', 'land- en waterbeheer' or 'land, water en klimaat': Teaching Methodology Biology, Chemistry, Geography, Physics or Mathematics
- Bachelor in de biowetenschappen: Teaching Methodology Biology of Chemistry
- Bachelor in de bio-industriële wetenschappen, Master in de industriële wetenschappen: biochemie, Master in de industriële wetenschappen: milieukunde and en Master in de bio- industriële wetenschappen circulaire bioprocesstechnologie: Teaching Methodology Chemistry
- Bachelor in de industriële wetenschappen: Teaching Methodology Physics

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 educatievemaester@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	H002571 Teaching Methodology: Bioengineering <i>Kathy Messens -- Department of Biotechnology</i>	9	a	1	J:J	270
2	H002574 Teaching Methodology: Geography <i>Nico Van de Weghe -- Department of Geography</i>	9	b	1	J:J	270
3	H002572 Teaching Methodology: Biology <i>Dominique Adriaens -- Department of Biology</i>	9	b	1	J:J	270
4	H002573 Teaching Methodology: Chemistry <i>Katrien Strubbe -- Department of Chemistry</i>	9	b	1	J:J	270
5	H002580 Teaching Methodology: Physics <i>Stefaan Cottenier -- Department of Electromechanical, Systems and Metal Engineering</i>	9	b	1	J:J	270
6	H002493 Teaching Methodology: Mathematics <i>Hendrik Van Maldeghem -- Department of Mathematics, Computer Science and Statistics</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 educatievemaester@ugent.be to have the corresponding internship added to your curriculum.

Nr	Course	CRDT	Ref	MT1	Session	Study
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1	H002575	Internship Bioengineering <i>Kathy Messens -- Department of Biotechnology</i>	9	1	J:J	270
2	H002578	Internship Geography <i>Nico Van de Weghe -- Department of Geography</i>	9	1	J:J	270
3	H002577	Internship Biology <i>Dominique Adriaens -- Department of Biology</i>	9	1	J:J	270
4	H002576	Internship Chemistry <i>Katrien Strubbe -- Department of Chemistry</i>	9	1	J:J	270
5	H002581	Internship Physics <i>Philippe Smet -- Department of Solid State Sciences</i>	9	1	J:J	270
6	H002494	Internship Mathematics <i>Hendrik Van Maldeghem -- Department of Mathematics, Computer Science and Statistics</i>	9	1	J:J	270

1.4 Programme Pathway Practice Oriented Educational Research Project

6 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	H002582 Practice Oriented Educational Research Project in Sciences en Technology <i>Katrien Strubbe -- Department of Chemistry</i>	6		1	J:J	180

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