GHENT UNIVERSITY

Study Programme

Academic year 2026-2027

Faculty of Bioscience Engineering,Faculty of Psychology and Educational Sciences

Master of Science in Teaching in Science and Technology -- Bioengineering

Language of instruction: Dutch

Programme version 6

1 Domain Component

Depending on the student's previous education (and in accordance with the admission requirements for the master's degree programme of Teaching in Science and Technology, Main Subject: Bioengineering):
No less than 54 and no more than 57 credits to be taken from the corresponding domain-specific master's programme (following the student's bachelor degree).

2 Teaching Component 39 credits

For courses without indication of the standard learning path, the student can choose whether to take the course in the first or second year, depending on the rest of his/her curriculum. Students must complete the corresponding teaching methodology course before entering into an internship, or at least take the teaching methodology course simultaneously.

2.1 Programme Pathway Theoretical Education 12 credits

Nr	Course		CRDT	Ref	MT1	Session	Study
1	H002478	The Student: Development and Motivation *Wim Beyers -- Department of Developmental, Personality and Social Psychology*	6			A:1	180
2	H002477	The Teacher within Class, School and Society *Melissa Tuytens -- Department of Educational Studies*	6			A:2	180

2.2 Programme Pathway Teaching Methodology 9 credits

Subscribe to 18 credit units from the following list.

Your prior Education determines which Teaching Methodology Course you have direct access to.
- Bachelor in de bio-ingenieurswetenschappen: Teaching Methodology Biology, Chemistry, Physics, STEM Focus General Subjects for Technical and Vocational Education or Mathematics
- Bachelor in de bio-ingenieurswetenschappen, Main Subjects/Majors 'bos- en natuurbeheer', 'land, water en klimaat' or 'milieutechnologie': Teaching Methodology Biology, Chemistry, Geography, Physics, STEM Focus General Subjects for Technical and Vocational Education or Mathematics
- Bachelor in de biowetenschappen: Teaching Methodology Biology, Chemestry or STEM Focus General Subjects for Technical and Vocational Education
- Bachelor in de bio-industriële wetenschappen: Teaching Methodology Chemistry or STEM Focus General Subjects for Technical and Vocational Education
- Bachelor in de industriële wetenschappen: Teaching Methodology Physics or STEM Focus General Subjects for Technical and Vocational Education

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 educatievemaster@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	H002574	Teaching Methodology: Geography *Veerle Van Eetvelde -- Department of Geography*	9			J:J	270
2	H002572	Teaching Metholodogy: Biology *Dominique Adriaens -- Department of Biology*	9			J:J	270
3	H002573	Teaching Methodology: Chemistry *Katrien Strubbe -- Department of Chemistry*	9			J:J	270
4	H002580	Teaching Methodology: Physics *Stefaan Cottenier -- Department of Electromechanical, Systems and Metal Engineering*	9			J:J	270
5	H002691	Teaching Methodology: STEM Focus General Subjects for Technical and Vocational Education *Katrien Strubbe -- Department of Chemistry*	9				270
6	H002493	Teaching Methodology: Mathematics *Hendrik Van Maldeghem -- Department of Mathematics, Computer Science and Statistics*	9			J:J	270

2.3 Programme Pathway Internship 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.

You must take the Internship course with reference b that corresponds with the Teaching Methodology Course 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 educatievemaster@ugent.be to have the corresponding internship added to your curriculum.

Nr	Course		CRDT	Ref	MT1	Session	Study
1	H002575	Internship Bioengineering *Kathy Messens -- Department of Biotechnology*	9	a		J:J	270
2	H002578	Internship Geography *Veerle Van Eetvelde -- Department of Geography*	9	b		J:J	270
3	H002577	Internship Biology *Dominique Adriaens -- Department of Biology*	9	b		J:J	270
4	H002576	Internship Chemistry *Katrien Strubbe -- Department of Chemistry*	9	b		J:J	270
5	H002581	Internship Physics *Philippe Smet -- Department of Solid State Sciences*	9	b		J:J	270
6	H002692	Internship STEM Focus General Subjects for Technical and Vocational Education *Katrien Strubbe -- Department of Chemistry*	9	b		J:J	270
7	H002494	Internship Mathematics *Hendrik Van Maldeghem -- Department of Mathematics, Computer Science and Statistics*	9	b		J:J	270

3 Master's Dissertation

The master's dissertation is selected in accordance with the domain-specific master's programme. If the master's dissertation encompasses 18 or 21 credits in the domain master, the master's dissertation in the Master of Science in Teaching in Science and Technology is 24 credits. If the master's dissertation encompasses 30 credits in the domain master, the master's dissertation in the Master of Science in Teaching in Science and Technology is 27 credits.

Nr	Course		CRDT	Ref	MT1	Session	Study
1	I002583	Master's Dissertation *Kathy Messens -- Department of Biotechnology*	24			A:J	720
2	I003095	Master's Dissertation *Kathy Messens -- Department of Biotechnology*	27			A:J	810

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 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 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