GHENT UNIVERSITY

Study Programme

Academic year 2026-2027

Faculty of Sciences

Bachelor of Science in Mathematics

Language of instruction: Dutch

Programme version 18

1 General Courses — 156 credits

Nr	Course		CRDT	Ref	MT1	Session	Study
1	C003554	Linear Algebra and Geometry I *Tom De Medts -- Department of Mathematics, Computer Science and Statistics*	6		1	A:1	180
2	C003574	Analysis I *Jasson Vindas Diaz -- Department of Mathematics: Analysis, Logic and Discrete Mathematics*	6		1	A:1	180
3	C003550	Discrete Mathematics I *Leo Storme -- Department of Mathematics: Analysis, Logic and Discrete Mathematics*	6		1	A:1	180
4	C004646	Object-oriented Programming *Kris Coolsaet -- Department of Mathematics, Computer Science and Statistics*	6		1	A:1	180
5	C003552	Computer Project Mathematics *Tom De Medts -- Department of Mathematics, Computer Science and Statistics*	4		1	A:1	100
6	C003555	Linear Algebra and Geometry II *Koen Thas -- Department of Mathematics, Computer Science and Statistics*	6		1	A:2	165
7	C003575	Analysis II *Hans Vernaeve -- Department of Mathematics: Analysis, Logic and Discrete Mathematics*	8		1	A:2	200
8	C003551	Discrete Mathematics II *Bart De Bruyn -- Department of Mathematics, Computer Science and Statistics*	6		1	A:2	165
9	C004210	Theoretical Mechanics *Sven De Rijcke -- Department of Physics and Astronomy*	6		1	A:2	180
10	C003607	General Physics *Henk Vrielinck -- Department of Solid State Sciences*	6		1	A:2	165
11	C003557	Algebra I *Tom De Medts -- Department of Mathematics, Computer Science and Statistics*	6		2	A:1	180
12	C003568	Complex Analysis *Hans Vernaeve -- Department of Mathematics: Analysis, Logic and Discrete Mathematics*	6		2	A:1	165
13	C002794	Algorithms and Data Structures *Veerle Fack -- Department of Mathematics, Computer Science and Statistics*	6		2	A:1	165
14	C003558	Statistics I *Kelly Van Lancker -- Department of Mathematics, Computer Science and Statistics*	6		2	A:1	165
15	C004420	Differential Geometry *Karel Van Bockstal -- Department of Mathematics: Analysis, Logic and Discrete Mathematics*	6		2	A:2	165
16	C003569	Topology and Metric Spaces *Hans Vernaeve -- Department of Mathematics: Analysis, Logic and Discrete Mathematics*	6		2	A:2	180
17	C003608	Numerical Analysis *Julian Köllermeier -- Department of Mathematics, Computer Science and Statistics*	6		2	A:2	165
18	C003559	Statistics II: Project [en] *Oliver Dukes -- Department of Mathematics, Computer Science and Statistics*	6		2	A:2	165
19	C000313	Projective Geometry *Bart De Bruyn -- Department of Mathematics, Computer Science and Statistics*	6		3	A:1	165
20	C003570	Function Spaces *Hendrik De Bie -- Department of Electronics and Information Systems*	6		3	A:2	180

21	C003563	Optimisation *Veerle Fack -- Department of Mathematics, Computer Science and Statistics*	6	3	A:1	165
22	C003560	Statistics III: Regression Analysis [en, nl] *Stijn Vansteelandt -- Department of Mathematics, Computer Science and Statistics*	6	3	A:1	165
23	C004110	Algebra II *Jari Desmet -- Department of Mathematics, Computer Science and Statistics*	6	3	A:2	180
24	C003562	Logic *Andreas Weiermann -- Department of Mathematics: Analysis, Logic and Discrete Mathematics*	6	3	A:1	165
25	C004010	Mathematical Modeling *Marnix Van Daele -- Department of Mathematics, Computer Science and Statistics*	6	3	A:2	180
26	C003573	Bachelor Project	6	3	A:2	165

2 Minors 18 credits

Subscribe to 1 minor from the following list. Subject to approval by the faculty.
Students who have followed the Minor Education, can enter directly into the educational master's programme.

2.1 Minor Life Sciences

Subscribe to 18 credit units from the following list, distributed over the first standard learning path as follows:
- 12 credit units in year 2,
- 6 credit units in year 3.

Nr	Course		CRDT	Ref	MT1	Session	Study
1	C003625	Population Processes *Luc Lens -- Department of Biology*	6			A:1	180
2	C003390	Introduction to Life Sciences *Peter Vandenabeele -- Department of Molecular Biology*	6			A:2	165
3	C001479	Introduction to Bioinformatics [en] *Kathleen Marchal -- Department of Plant Biotechnology and Bioinformatics*	6			A:2	165

2.2 Minor Economics

Subscribe to 18 credit units from the following list, distributed over the first standard learning path as follows:
- 12 credit units in year 2,
- 6 credit units in year 3.

Nr	Course		CRDT	Ref	MT1	Session	Study
1	F001019	Economics *Bruno Merlevede -- Department of Economics*	6			A:1	180
2	F000804	Financial Mathematics *Michèle Vanmaele -- Department of Mathematics, Computer Science and Statistics*	6			A:2	180
3	F000081	Microeconomics *Dirk Van de gaer -- Department of Economics*	6			A:1	180
4	F001007	Advanced Microeconomics: Game Theory [en, nl] *Dirk Van de gaer -- Department of Economics*	6			A:1	180

2.3 Minor Informatics

Subscribe to 18 credit units from the following list, distributed over the first standard learning path as follows:
- 12 credit units in year 2,
- 6 credit units in year 3.

Nr	Course		CRDT	Ref	MT1	Session	Study
1	C003771	Databases *Guy De Tré -- Department of Telecommunications and Information Processing*	6			A:1	180
2	C004647	Software Development *Kris Coolsaet -- Department of Mathematics, Computer Science and Statistics*	6			A:2	180
3	C003777	Algorithms and Data Structures 2 *Kris Coolsaet -- Department of Mathematics, Computer Science and Statistics*	6			A:1	180
4	C003776	System Programming *Filip De Turck -- Department of Information Technology*	6			A:2	180
5	C004667	Introduction to Machine Learning *Yvan Saeys -- Department of Mathematics, Computer Science and Statistics*	6			A:1	180

2.4 Minor Physics

Subscribe to 18 credit units from the following list, distributed over the first standard learning path as follows:
- 12 credit units in year 2,
- 6 credit units in year 3.

Nr	Course		CRDT	Ref	MT1	Session	Study

1	C002240	Quantum Mechanics 1 *Jan Ryckebusch -- Department of Physics and Astronomy*	6		A:1	180
2	C004206	Stars and Planets *Sven De Rijcke -- Department of Physics and Astronomy*	6		A:2	180
3	C002245	Quantum Mechanics 2 *Dimitri Van Neck -- Department of Physics and Astronomy*	6		A:1	180
4	C004214	Galaxies *Ilse De Looze -- Department of Physics and Astronomy*	6		A:2	180
5	C004216	Relativity and Electromagnetism [en] *Archisman Ghosh -- Department of Physics and Astronomy*	6		A:2	180

2.5 Minor Education

Subscribe to 18 credit units from the following list, with 9 credit units with reference a, distributed over the first standard learning path as follows:
- 6 credit units in year 2,
- 12 credit units in year 3.

Nr	Course		CRDT	Ref	MT1	Session	Study
1	H002476	Powerful Learning Environments *Bram De Wever -- Department of Educational Studies*	6		2	A:1	180
2	H002493	Teaching Methodology: Mathematics *Hendrik Van Maldeghem -- Department of Mathematics, Computer Science and Statistics*	9	a	3	J:J	270
3	H002608	Teaching Methodology: STEM Focus STEM *Katrien Strubbe -- Department of Chemistry*	9	a	3	J:J	270
4	C004093	Mathematical Skills and Know-how *Koen Thas -- Department of Mathematics, Computer Science and Statistics*	3		3	A:2	85

3 Elective Courses 6 credits

3.1 Elective Courses UGent or other Universities

Subscribe to 6 credit units from the study programmes of UGent including the Ghent University elective courses, other universities of the Flemish Community or, Erasmus+ partner universities including the ENLIGHT (online) 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 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