

# Study Programme

Academic year 2025-2026

Faculty of Sciences Bachelor of Science in Mathematics

## Language of instruction: Dutch Programme version 17

### **General Courses**

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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	C003770	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: Algebra and Geometry	4	1	A:1	100
6	C003555	Linear Algebra and Geometry II Hendrik Van Maldeghem 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 Dimitri Van Neck 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: Algebra and Geometry	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 Frederik Broucke Department of Mathematics: Analysis, Logic and Discrete Mathematics	6	2	A:2	165
16	C003569	<b>Topology and Metric Spaces</b> 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: Algebra and Geometry	6	3	A:1	165
20	C003570	Function Spaces	6	3	A:2	180

Sigiswald Barbier -- Department of Electronics and Information Systems

156 credits

2	Minors				18	credits
26	C003573	Bachelor Project	6	3	A:2	165
25	C004010	Mathematical Modeling Marnix Van Daele 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
23	C004110	Algebra II N. N.	6	3	A:2	180
22	C003560	Statistics III: Regression Analysis [en, nl] Stijn Vansteelandt Department of Mathematics, Computer Science and Statistics	6	3	A:1	165
21	C003563	Optimisation Veerle Fack Department of Mathematics, Computer Science and Statistics	6	3	A:1	165

# 2 Minors

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.

		in year 5.				
Nr	Course		CRDT F	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 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

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

#### 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	C003772	Object Oriented Programming Kris Coolsaet Department of Mathematics, Computer Science and Statistics	6			A:2	180
3	C003777	Algorithms and Data Structures 2 Gunnar Brinkmann Department of Mathematics, Computer Science and Statistics	6			A:1	180
4	C003776	System Programming Filip De Turck Department of Information Technology	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:

<ul> <li>12 credit units in year 2,</li> </ul>	
6 credit units in year 3	

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Nr Course		CRDT Ref MT1	Session	Study
1 C00224	0 Quantum Mechanics 1	6	A:1	180
	Jan Ryckebusch Department of Physics and Astronomy			

2 0	C004206	Stars and Planets Sven De Rijcke Department of Physics and Astronomy	6			A:2	180
3 C	C002245	Quantum Mechanics 2 Nick Bultinck Department of Physics and Astronomy	6			A:1	180
4 C	C004214	Galaxies Ilse De Looze Department of Physics and Astronomy	6			A:2	180
5 C	2004216	Relativity and Electromagnetism [en] Archisman Ghosh Department of Physics and Astronomy	6			A:2	180
		credit units from the following list, with 9 credit units with reference a, distr	ributed over t	he first s	andard lear	ning path as	
-		credit units from the following list, with 9 credit units with reference a, distr	ributed over t	he first s	andard lear	ning path as	
Subse follow • 6 ci • 12		n year 2,	ributed over t	h <mark>e first s</mark>	andard lear	ning path as Session	Study
Subse follow • 6 cr • 12 c Nr C	vs: redit units i credit units Course	n year 2,					Study 180
Subse follow • 6 cr • 12 c Nr C 1 F	vs: redit units i credit units Course	n year 2, in year 3. Powerful Learning Environments	CRDT		MT1	Session	
Subso follow • 6 cr • 12 c Nr C 1 H 2 H	vs: credit units i credit units Course H002476	n year 2, in year 3. Powerful Learning Environments Bram De Wever Department of Educational Studies Teaching Methodology: Mathematics	CRDT 6	Ref	MT1 2	Session	180

#### 3 Elective Courses

#### 3.1 Elective Courses UGent or other Universities

Subscribe to 6 credit units from the study programmes of UGent including the <u>Ghent University elective courses</u>, other universities of the Flemish Community or, <u>Erasmus+ partner universities</u> including the <u>ENLIGHT (online) elective courses</u>. 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	
ua. Danish	en. English	IL ILAIIAI	no. Norwegian	Tu. Russian	sv. Sweuisn	

#### 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 b: tri-annually	c: annually, from 2026-2027 d: bi-annually, from 2026-2027 e: tri-annually, from 2026-2027	f: annually, from 2027-2028 g: bi-annually, from 2027-2028 h: tri-annually, from 2027-2028	i: annually, from 2028-2029 j: bi-annually, from 2028-2029 k: tri-annually, from 2028-2029
b. theathdally			

6 credits