

Study Programme

9 credits

Academic year 2025-2026

Faculty of Sciences

Master of Science in Statistical Data Analysis

Language of instruction: English

Programme version 13

1 General Courses

i Ochicia	1 Courses			J	Cicuita
Vr Course		CRDT	Ref MT1	Session	Study
I C004076	Principles of Statistical Data Analysis Els Goetghebeur Department of Mathematics, Computer Science and Statistics Indicative price: € 0	6	1	A:1	180
2 C004617	R for Data Analysis Koen Plevoets Department of Mathematics, Computer Science and Statistics Indicative price: ≤ 0	3	1	A:1	90
2 Majors				36	credits
Subscribe to 36	6 credit units from 1 major from the following list. Subject to approval by the fa	culty.			
2.1 Major	Statistical Science			36	credits
Nr Course		CRDT	Ref MT1	Session	Study
I C004618	Python for Data Analysis Koen Plevoets Department of Mathematics, Computer Science and Statistics Indicative price: € 0	3	1	A:1	90
2 C004078	Analysis of Continuous Data Els Goetghebeur Department of Mathematics, Computer Science and Statistics Indicative price: € 67	6	1	A:1	180
3 C004079	Categorical Data Analysis Beatrijs Moerkerke Department of Data-analysis Indicative price: € 15	6	1	A:1	180
4 C004080	Statistical Inference Oliver Dukes Department of Mathematics, Computer Science and Statistics Indicative price: € 0	6	1	A:2	180
2.1.1 Electi	ve Course List			15	5 credits
Subscribe to at	o more than 15 credit units from the following list. most 5 credit units from 1 module from the following list.	CRDT	Ref MT1	Session	Studv
Nr Course I 1002454	Geostatistics	5	Ref MT1	Session	150
	Indicative price: € 15				
2 C003243	Econometrics: Time Series Analysis Gerdie Everaert Department of Economics Indicative price: € 0	5	1	A:1	150
3 C002884	Epidemiology and Clinical Trials Brecht Devleesschauwer Department of Translational Physiology, Infectiology and Public Health Indicative price: € 65	5	1	A:1	150
4 C003401	Statistical Genomics Lieven Clement Department of Mathematics, Computer Science and Statistics Indicative price: € 0	5	1	A:1	150
5 C002950	Survival Analysis Els Goetghebeur Department of Mathematics, Computer Science and Statistics Indicative price: € 10	5	1	A:2	150

01-01-2026 13:50 p 1

6 C004413	Causal Machine Learning Stijn Vansteelandt Department of Mathematics, Computer Science and Statistics Indicative price: € 5	5	1	A:2	150
7 1001280	Experimental Design Stijn Luca Department of Data Analysis and Mathematical Modelling Indicative price: € 15	5	1	B:2	150
8 C003398	Analysis of Clustered and Longitudinal Data Johan Steen Department of Mathematics, Computer Science and Statistics Indicative price: € 130	5	1	A:2	150
9 C003549	Analysis of High Dimensional Data Lieven Clement Department of Mathematics, Computer Science and Statistics Indicative price: € 0	5	1	A:1	150
10 C004414	Statistical Consulting Els Goetghebeur Department of Mathematics, Computer Science and Statistics Indicative price: € 5	5	1		150
11 F000687	Advanced Econometrics: Non-Linear Methods Gerdie Everaert Department of Economics Indicative price: € 0	6	1	A:2	180
12 C004545	Bayesian Statistics Koen De Turck Department of Telecommunications and Information Processing Indicative price: € 0	5	1	A:2	150
13 E016350	Artificial Intelligence Aleksandra Pizurica Department of Telecommunications and Information Processing Indicative price: € 75	3	1	B:2	90

2.1.1.1 Elective Courses Flemish Community

Subscribe to at most 5 credit units from the study programmes of the universities of the Flemish Community.

2.2 Major Computational Statistics

36 credits

Nr Course		CRDT	Ref	MT1	Session	Study
1 C00380	5 Statistical Modelling Tom Loeys Department of Data-analysis Indicative price: € 53	8		1	A:1	240
2 C00380	2 Big Data Science Jefrey Lijffijt Department of Electronics and Information Systems Indicative price: € 0	5		1	A:J	150
3 E01635	0 Artificial Intelligence Aleksandra Pizurica Department of Telecommunications and Information Processing Indicative price: € 75	3		1	B:2	90
4 C00308	0 Programming Peter Dawyndt Department of Mathematics, Computer Science and Statistics Indicative price: € 0	5	UKV	1	C:1	150
5 C00380	3 Databases Antoon Bronselaer Department of Telecommunications and Information Processing Indicative price: € 25	5		1	A:2	150
2.2.1 Elec	tive Course List				10	credits

Subscribe to no more than 10 credit units from the following list.

Subscribe to at most 5 credit units from 1 module from the following list.

Course	CRDT Ref	M I 1	Session	Study
C004545 Bayesian Statistics Koen De Turck Department of Telecommunications and Information Processing Indicative price: ≤ 0	5	1	A:2	150
C003549 Analysis of High Dimensional Data Lieven Clement Department of Mathematics, Computer Science and Statistics Indicative price: € 0	5	1	A:1	150
C004413 Causal Machine Learning Stijn Vansteelandt Department of Mathematics, Computer Science and Statistics Indicative price: € 5	5	1	A:2	150
C004414 Statistical Consulting Els Goetghebeur Department of Mathematics, Computer Science and Statistics Indicative price: € 5	5	1		150

01-01-2026 13:50 p 2

5	F000918	Deep Learning	6	1	A:2	180
		Seppe vanden Broucke Department of Business Informatics and Operations Management				
		Indicative price: € 0				
6	E061341	Natural Language Processing	6	1	A:2	180
6	E061341	Natural Language Processing Thomas Demeester Department of Information Technology	6	1	A:2	180

2.2.1.1 Elective Courses Flemish Community

Subscribe to at most 5 credit units from the study programmes of the universities of the Flemish Community.

3 Master's Dissertation 15 cre				
Nr Course	CRDT Ref	MT1	Session	Study
1 C002887 Master's Dissertation	15	1	A:J	450
Indicative price: unknown				

Programme related study costs

Type: Laptop

Name: Laptop Indicative price: € 700

Optional: No

Fulltime standard learning track year: 1

Additional information: https://www.ugent.be/we/nl/voor-nieuwe-studenten/laptop

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 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

Learning materials

The prices stated are indicative and subject to fluctuations.

The list of learning materials per course unit can be found in the course sheets.

01-01-2026 13:50 p 3