

Faculty of Sciences

Master of Science in Statistical Data Analysis

Language of instruction: English

Programme version 12

1 General Courses 12 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	C004076 Principles of Statistical Data Analysis Jan De Neve -- Department of Data-analysis Indicative price: € 0	6		1	A:1	180
2	C004077 Statistical Computing Veronique Storme -- Department of Applied Mathematics and Computer Science Indicative price: € 0	6		1	A:1	180

2 Majors 33 credits

Subscribe to 33 credit units from 1 major from the following list. Subject to approval by the faculty.

2.1 Major Statistical Science 33 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	C004078 Analysis of Continuous Data Els Goetghebeur -- Department of Applied Mathematics and Computer Science Indicative price: € 67	6		1	A:1	180
2	C004079 Categorical Data Analysis Beatrijs Moerkerke -- Department of Data-analysis Indicative price: € 15	6		1	A:1	180
3	C004080 Statistical Inference Frederik De Keersmaecker -- Department of Applied Mathematics and Computer Science Indicative price: € 0	6		1	A:2	180

2.1.1 Elective Course List 15 credits

Subscribe to no more than 15 credit units from the following list.

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

Nr	Course	CRDT	Ref	MT1	Session	Study
1	I002454 Geostatistics Ellen Van De Vijver -- Department of Environment Indicative price: € 15	5		1	A:2	150
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 Applied Mathematics and Computer Science Indicative price: € 0	5		1	A:1	150
5	C002950 Survival Analysis Els Goetghebeur -- Department of Applied Mathematics and Computer Science Indicative price: € 10	5		1	A:2	150
6	C004413 Causal Machine Learning Stijn Vansteelandt -- Department of Applied Mathematics and Computer Science Indicative price: € 5	5		1	A:2	150

7	I001280	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 Stijn Vansteelandt -- Department of Applied Mathematics and Computer Science Indicative price: € 140	5	1	A:2	150
9	C003549	Analysis of High Dimensional Data Lieven Clement -- Department of Applied Mathematics and Computer Science Indicative price: € 0	5	1	A:1	150
10	C004414	Statistical Consulting Els Goetghebeur -- Department of Applied Mathematics and Computer Science Indicative price: € 5	5	1	A:2	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

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

33 credits

Nr	Course	CRDT	Ref	MT1	Session	Study
1	C003805 Statistical Modelling Els Goetghebeur -- Department of Applied Mathematics and Computer Science Indicative price: € 53	8		1	A:1	240
2	C003802 Big Data Science Daniel Peralta Cámara -- Department of Applied Mathematics and Computer Science Indicative price: € 0	5		1	A:2	150
3	C003080 Programming Peter Dawyndt -- Department of Applied Mathematics and Computer Science Indicative price: € 0	5	UKV	1	C:1	150
4	C003803 Databases Antoon Bronselaer -- Department of Telecommunications and Information Processing Indicative price: € 25	5		1	A:2	150

2.2.1 Elective 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.](#)

Nr	Course	CRDT	Ref	MT1	Session	Study
1	C004545 Bayesian Statistics Koen De Turck -- Department of Telecommunications and Information Processing Indicative price: € 0	5		1	A:2	150
2	C003549 Analysis of High Dimensional Data Lieven Clement -- Department of Applied Mathematics and Computer Science Indicative price: € 0	5		1	A:1	150
3	C004413 Causal Machine Learning Stijn Vansteelandt -- Department of Applied Mathematics and Computer Science Indicative price: € 5	5		1	A:2	150
4	C004414 Statistical Consulting Els Goetghebeur -- Department of Applied Mathematics and Computer Science Indicative price: € 5	5		1	A:2	150
5	F000918 Deep Learning Seppe vanden Broucke -- Department of Business Informatics and Operations Management Indicative price: € 0	6		1	A:2	180
6	E061341 Natural Language Processing Chris Develder -- Department of Information Technology Indicative price: € 0	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.](#)

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

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 course 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 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 2025-2026	f: annually, from 2026-2027	i: annually, from 2027-2028
b: tri-annually	d: bi-annually, from 2025-2026	g: bi-annually, from 2026-2027	j: bi-annually, from 2027-2028
	e: tri-annually, from 2025-2026	h: tri-annually, from 2026-2027	k: tri-annually, from 2027-2028

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.