

Study Programme

Academic year 2025-2026

Faculty of Sciences

Master of Science in Statistical Data Analysis

C003398 Analysis of Clustered and Longitudinal Data

C003549 Analysis of High Dimensional Data

10 C004414 Statistical Consulting

Johan Steen -- Department of Mathematics, Computer Science and Statistics

Lieven Clement -- Department of Mathematics, Computer Science and Statistics

Els Goetghebeur -- Department of Mathematics, Computer Science and Statistics

Language of instruction: English

Gene	eral Courses			9	credits
r Cours	9	CRDT I	Ref MT1	Session	Study
C0040	76 Principles of Statistical Data Analysis Els Goetghebeur Department of Mathematics, Computer Science and Statistics	6	1	A:1	180
C0046	17 R for Data Analysis Koen Plevoets Department of Mathematics, Computer Science and Statistics	3	1	A:1	90
Majo	rs			36	credits
ubscribe t	o 36 credit units from 1 major from the following list. Subject to approval by	the faculty.			
.1 Maj	or Statistical Science			36	credits
r Cours	9	CRDT F	Ref MT1	Session	Study
C0046	18 Python for Data Analysis Koen Plevoets Department of Mathematics, Computer Science and Statistics	3	1	A:1	90
C0040	78 Analysis of Continuous Data Els Goetghebeur Department of Mathematics, Computer Science and Statistics	6	1	A:1	180
C0040	79 Categorical Data Analysis Beatrijs Moerkerke Department of Data-analysis	6	1	A:1	180
C0040	80 Statistical Inference Oliver Dukes Department of Mathematics, Computer Science and Statistics	6	1	A:2	180
.1.1 Ele	ective Course List			1	5 credits
ubscribe t	o no more than 15 credit units from the following list. o at most 5 credit units from 1 module from the following list.				
r Cours 10024		CRDT F	Ref MT1 1	Session	Study 150
C0032		5	1	A:1	150
C0028	84 Epidemiology and Clinical Trials Brecht Devleesschauwer Department of Translational Physiology, Infectiology and Public	5 : Health	1	A:1	150
C0034	O1 Statistical Genomics Lieven Clement Department of Mathematics, Computer Science and Statistics	5	1	A:1	150
C0029	50 Survival Analysis Els Goetghebeur Department of Mathematics, Computer Science and Statistics	5	1	A:2	150
C0044	13 Causal Machine Learning Stijn Vansteelandt Department of Mathematics, Computer Science and Statistics	5	1	A:2	150
100128	80 Experimental Design	5	1	B:2	150

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A:2

A:1

150

150

150

11 F000687	Advanced Econometrics: Non-Linear Methods Gerdie Everaert Department of Economics	6	1	A:2	180
12 C004545	Bayesian Statistics Koen De Turck Department of Telecommunications and Information Processing	5	1	A:2	150
13 E016350	Artificial Intelligence Aleksandra Pizurica Department of Telecommunications and Information Processing	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	C003805	Statistical Modelling Tom Loeys Department of Data-analysis	8		1	A:1	240
2	C003802	Big Data Science Jefrey Lijffijt Department of Electronics and Information Systems	5		1	A:J	150
3	E016350	Artificial Intelligence Aleksandra Pizurica Department of Telecommunications and Information Processing	3		1	B:2	90
4	C003080	Programming Peter Dawyndt Department of Mathematics, Computer Science and Statistics	5	UKV	1	C:1	150
5	C003803	Databases Antoon Bronselaer Department of Telecommunications and Information Processing	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 R	ef MT1	Session	Study
1	C004545	Bayesian Statistics Koen De Turck Department of Telecommunications and Information Processing	5	1	A:2	150
2	C003549	Analysis of High Dimensional Data Lieven Clement Department of Mathematics, Computer Science and Statistics	5	1	A:1	150
3	C004413	Causal Machine Learning Stijn Vansteelandt Department of Mathematics, Computer Science and Statistics	5	1	A:2	150
4	C004414	Statistical Consulting Els Goetghebeur Department of Mathematics, Computer Science and Statistics	5	1		150
5	F000918	Deep Learning Seppe vanden Broucke Department of Business Informatics and Operations Management	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 credit					
Nr Course	CRDT	Ref	MT1	Session	Study
1 C002887 Master's Dissertation	15		1	A:J	450

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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

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 h: tri-annually, from 2027-2028 k: tri-annually, from 2028-2029

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