

Study Programme

12 credits

Academic year 2024-2025

Faculty of Sciences Master of Science in Statistical Data Analysis

Language of instruction: English

Programme version 12

1 General Courses

√r Cou	ırse		CRDT	Ref	MT1	Session	Study
C00	04076	Principles of Statistical Data Analysis Jan De Neve Department of Data-analysis	6		1	A:1	180
2 C00	04077	Statistical Computing Veronique Storme Department of Mathematics, Computer Science and Statistics	6		1	A:1	180
2 Maj	jors					33 c	redits
Subscrib	pe to 33	credit units from 1 major from the following list. Subject to approval by the fac	culty.				
2.1 M	lajor S	Statistical Science				33 c	redits
Vr Cou			CRDT	Ref	MT1	Session	Study
C00		Analysis of Continuous Data Els Goetghebeur Department of Mathematics, Computer Science and Statistics	6		1	A:1	180
2 C00	04079	Categorical Data Analysis Beatrijs Moerkerke Department of Data-analysis	6		1	A:1	180
3 C00		Statistical Inference Frederik De Keersmaeker Department of Mathematics, Computer Science and Statistics	6		1	A:2	180
2.1.1 E	Electiv	e Course List				15	credits
		more than 15 credit units from the following list. most 5 credit units from 1 module from the following list.					
√r Cou			CRDT	Ref	MT1	Session	Study
1002	2454	Geostatistics Ellen Van De Vijver Department of Environment	5		1	A:2	150
2 C00	03243	Econometrics: Time Series Analysis Gerdie Everaert Department of Economics	5		1	A:1	150
3 C00	02884	Epidemiology and Clinical Trials Brecht Devleesschauwer Department of Translational Physiology, Infectiology and Public Health	5		1	A:1	150
C00	03401	Statistical Genomics Lieven Clement Department of Mathematics, Computer Science and Statistics	5		1	A:1	150
C00	02950	Survival Analysis Els Goetghebeur Department of Mathematics, Computer Science and Statistics	5		1	A:2	150
6 C00	04413	Causal Machine Learning Stijn Vansteelandt Department of Mathematics, Computer Science and Statistics	5		1	A:2	150
7 1001	1280	Experimental Design Stijn Luca Department of Data Analysis and Mathematical Modelling	5		1	B:2	150
3 C00	03398	Analysis of Clustered and Longitudinal Data Stijn Vansteelandt Department of Mathematics, Computer Science and Statistics	5		1	A:2	150
C00		Analysis of High Dimensional Data Lieven Clement Department of Mathematics, Computer Science and Statistics	5		1	A:1	150
0 C00	04414	Statistical Consulting Els Goetghebeur Department of Mathematics, Computer Science and Statistics	5		1	A:2	150
1 F00	00687	Advanced Econometrics: Non-Linear Methods Gerdie Everaert Department of Economics	6		1	A:2	180
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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.

Koen De Turck -- Department of Telecommunications and Information Processing

2.2 Major Computational Statistics

33 credits

Nr Course	CRDT	Ref MT1	Session	Study
1 C003805 Statistical Modelling Els Goetghebeur Department of Mathematics, Computer Science and Statistics	8	1	A:1	240
2 C003802 Big Data Science Dieter De Witte Department of Electronics and Information Systems	5	1	A:2	150
3 C003080 Programming Peter Dawyndt Department of Mathematics, Computer Science and Statistics	5	UKV 1	C:1	150
4 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.

Nr	Course		CRDT	Ref 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	A:2	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 Chris Develder 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 F	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

pt: Portuguese cs: Czech el: Greek fr: French nl: Dutch 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:

c: annually, from 2025-2026 f: annually, from 2026-2027 i: annually, from 2027-2028 a: bi-annually 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

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