

## Study Programme

Academic year 2024-2025

Faculty of Sciences Master of Science in Statistical Data Analysis

## Language of instruction: English Programme version 12

1	General	Courses				12	2 credits
Nr	Course		CRDT	Ref	MT1	Session	Study
1	C004076	Principles of Statistical Data Analysis Jan De Neve Department of Data-analysis	6		1	A:1	180
2	C004077	Statistical Computing Veronique Storme Department of Mathematics, Computer Science and Statistics	6		1	A:1	180
2	Majors					33	3 credits
Sul	oscribe to 33	credit units from 1 major from the following list. Subject to approval by the fac	culty.				
2.7	1 Major S	Statistical Science				3	3 credits
Nr	Course		CRDT	Ref	MT1	Session	Study
1	C004078	Analysis of Continuous Data Els Goetghebeur Department of Mathematics, Computer Science and Statistics	6		1	A:1	180
2	C004079	Categorical Data Analysis Beatrijs Moerkerke Department of Data-analysis	6		1	A:1	180
3	C004080	Statistical Inference Frederik De Keersmaeker Department of Mathematics, Computer Science and Statistics	6		1	A:2	180
2.1	I.1 Electiv	e Course List					15 credits
<mark>Sul</mark> Sul	oscribe to no	more than 15 credit units from the following list. most 5 credit units from 1 module from the following list.					
Nr	Course	• • • • • •	CRDT	Ref	MT1	Session	Study
1	1002454	Geostatistics Ellen Van De Vijver Department of Environment	5		1	A:2	150
2	C003243	Econometrics: Time Series Analysis Gerdie Everaert Department of Economics	5		1	A:1	150
3	C002884	Epidemiology and Clinical Trials Brecht Devleesschauwer Department of Translational Physiology, Infectiology and Public Health	5		1	A:1	150
4	C003401	Statistical Genomics Lieven Clement Department of Mathematics, Computer Science and Statistics	5		1	A:1	150
5	C002950	Survival Analysis Els Goetghebeur Department of Mathematics, Computer Science and Statistics	5		1	A:2	150
6	C004413	Causal Machine Learning Stijn Vansteelandt Department of Mathematics, Computer Science and Statistics	5		1	A:2	150
7	1001280	Experimental Design Stijn Luca Department of Data Analysis and Mathematical Modelling	5		1	B:2	150
8	C003398	Analysis of Clustered and Longitudinal Data Stijn Vansteelandt Department of Mathematics, Computer Science and Statistics	5		1	A:2	150
9	C003549	Analysis of High Dimensional Data Lieven Clement Department of Mathematics, Computer Science and Statistics	5		1	A:1	150
10	C004414	Statistical Consulting Els Goetghebeur Department of Mathematics, Computer Science and Statistics	5		1	A:2	150
11	F000687	Advanced Econometrics: Non-Linear Methods Gerdie Everaert Department of Economics	6		1	A:2	180

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12	C004545	04545 Bayesian Statistics Koen De Turck Department of Telecommunications and Information Processing			1	A:2	150	
2.′	2.1.1.1 Elective Courses Flemish Community							
Su	bscribe to at	most 5 credit units from the study programmes of the universities of the Fle	emish Comm	unity.				
2.	2 Major (	Computational Statistics				33	3 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 credit						0 credits		
<mark>Su</mark> Su	bscribe to no bscribe to at	more than 10 credit units from the following list. 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	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 cr					
Nr Course	CRDT	Ref MT1	Session	Study	
1 C002887 Master's Dissertation	15	1	A:J	450	
N. N.					

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 cs: Czech da: Danish	de: German el: Greek en: English	es: Spanish fr: French it: Italian	ja: Japanese nl: Dutch	pl: Polish pt: Portuguese	sh: Kroatian/Serbian sl: Slovene	zh: Chinese
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 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