Curriculum M Sc in Statistics (90 ECTS)

GENERAL STRUCTURE	ECTS	Status
a) Courses	60	compulsory
Module 1	21	
Module 2	21	
Module 3 - Elective courses	18	
b) Master thesis or internship with report	30	compulsory
Total ECTS MSc in Statistics	90	

Modules / courses	Hours per week	Semester	ECTS per module/ course	Teacher(s)	Participant / contributor	Evaluation mode
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a) Courses (60 ECTS)

Module 1			21 ECTS			
Probability theory	2+2	A	6	Dr H. Mercier	Assist.	CA (graded)
Inferential statistics and test theory	4	А	6	Prof. JY. Dauxois		Written, 2 hours
Advanced regression methods	2+2	А	6	Prof. Y. Tillé	Assist.	Written, 2 hours
Multivariate analysis	2	A	3	Prof. Y. Tillé		Written, 2 hours
Module 2			21 ECTS			
Seminar of statistical software	2	А	3	Dr A. Matei		CA (graded)
Survey sampling 1	2	А	3	Prof. Y. Tillé		Written, 2 hours
Bayesian statistics	2	S	3	Dr PY. Deléamont		CA (graded)
Generalized linear model	2	S	3	Dr PY. Deléamont		CA (graded)
Seminar of applied statistics	2	S	3	Prof. J. Zuber		CA (graded)
Time series analysis	2+2	S	6	Dr C. Chevalier	Assist.	CA (graded)
Module 3 - Elective courses			Choose 18 ECTS			
Nonparametric statistics	2	А	3	Dr PY. Deléamont		CA (graded)
Statistical learning	2	S	3	Dr PY. Deléamont		CA (graded)
Computational statistics	4	S	6	Dr A. Matei		CA (graded)
Design of experiments	2	S	3	Prof. Y. Tillé		Written, 2 hours
Survey sampling 2	2	S	3	Prof. Y. Tillé		Written, 2 hours
Other elective course (see list)		A or S	max. 6			

b) Master thesis or internship (30 ECTS)

Master thesis or internship with report		30 ECTS		CA (grad	ided) ¹

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Master of Science in Statistics

(from the academic year 2019)

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Elective courses list (max. 6 ECTS)

Elective courses			max. 6 ECTS			
Informatique générale: Programmation I (in French)	2+2	А	6	Prof. P. Felber		CA (graded)
Structure de données et algorithmique (in French)	2+2	А	6	Dr. A. Sandoz	Assist.	CA (graded)
Courses at the Faculty of Economics and Business						
Probabilistic Algorithms	4	A	6	Dr P. Cotofrei		*
Data Warehousing	4	S	6	Dr.I. Ciorascu		*
Economic Statistics	2	Α	3	Prof. M. Zarin		*
Asset Pricing	4	Α	6	Prof. M. Dubois		*
Derivatives	4	Α	6	Prof. D. Ardia		*
Portfolio Optimization	2	Α	3	Prof. F. Sonney		*
Programming	2	S	3	Dr P. Cotofrei		*
Applied Econometrics	2+2	S	6	Prof. M. Zarin		*
Corporate Finance	4	S	6	Prof. C. Salva		*
International Operations and Logistics	4	A	6	Dr.Y. Nieto		*
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Course at the Faculty of Arts						
Linguistique du français moderne: Linguistique de corpus: méthodes et analyse (In French)	2	S	5	Prof. C. Rossari		*

Total of Master in Statistics

90 ECTS

Abbreviations

CA (graded) = continuous assessment that is graded, modalities fixed in course descriptives

¹ Report (graded)

* Check on course descriptive of the Faculty of Economics and Business of of the Faculty of Arts

A = autumn semester / S = spring semester

Information

Master coordinator: Prof. Y. Tillé (yves.tille@unine.ch)

Exams and regulation

Candidates must be registerd in IS-Academia for both courses and exams

For regulation, please consult the homepage of the Faculty of Sciences, www.unine.ch/sciences (règlement d'études et d'examens" and existing directives) or the administrative staff of the Faculty.