Master of Science in Statistics 2016 - 2017

Curriculum M Sc in Statistics (90 ECTS)

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

Modules / courses Hou	urs per week	Semester	ECTS per module/ course	Teacher(s)	Evaluation mode
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a) Courses (60 ECTS)

Module 1			21 ECTS		
Probability and stochastic processes	2+2	Α	6	Dr H. Mercier	CA (graded)
Inferential statistics and test theory	4	Α	6	Prof. J-Y. Dauxois	Written, 2 hours
Advanced regression methods	2+2	Α	6	Prof. Y. Tillé	Written, 2 hours
Multivariate analysis	2	Α	3	Prof. Y. Tillé	Written, 2 hours
Module 2			18 ECTS		
Time series analysis	2+2	Α	6	Dr. C. Chevalier	CA (graded)
Survey sampling	4	S	6	Prof. Y. Tillé	Written, 2 hours
Nonparametric statistics	2	S	3	Dr. C. Chevalier	CA (graded)
Generalized linear model	2	S	3	Dr. A. Matei	CA (graded)
Module 3			21 ECTS		
Seminar of statistical software	2	Α	3	Dr. A. Matei	CA (graded)
Computational statistics	4	S	6	Dr. A. Matei	CA (graded)
Seminar of applied statistics	2	S	3	Prof. J. Zuber	CA (graded)
Statistical modelling and design of experiments	2	S	3	Prof. Y-L. Grize	Written, 2 hours
Elective courses (see list)	4	A/S	6		

b) Master thesis or internship (30 ECTS)

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

Total of MSc in Statistics		90 ECTS

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Modules / courses	Hours per week	Semester	ECTS per module/ course	Teacher(s)	Evaluation mode
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Elective courses list (6 ECTS)

Elective courses (choose 6 ECTS)			6 ECTS		
Bayesian statistics	4	S	6	Dr JM. Freyermuth	CA (graded)
Informatique générale: Programmation I	2+2	А	6	Prof. P. Felber	CA (graded)
Structure de données et algorithmique	2+2	А	6	Dr A. Sandoz	CA (graded)
Mathématiques discrètes et applications	2+2	А	6	Dr. H. Mercier	Written, 2 hours
Statistical learning methods	2+2	S	5	Prof. J. Savoy	Written, 2 hours
Courses at the Faculty of Economics and Business					
Probabilistic Algorithms	2/4	Α	3/6	Dr P. Cotofrei	*
Data Warehousing	4	S	6	Prof. K. Stoffel	*
Economic Statistics	2	Α	3	Prof. M. Zarin	*
Asset Pricing	4	Α	6	Prof. M. Dubois	*
Derivatives	4	Α	6	Prof. P. Roger	*
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	Α	6	Dr- Y- Nieto	*

Abbreviations

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

A = Autumn semester / S = Spring semester

Information

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

Exams and regulation

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

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

¹ Report (graded)

^{*} Check on course descriptive of the Faculty of Economics and Business