

Master of Science in Statistics – Joint Masters Program in Berlin

This is a non-official visualization of the study regulations, specialization areas and modules for the Master of Science in Statistics (study and examination regulations 2016 including the first and second amendment 2020/21). Legally binding are only the study and examination regulations published in the official gazette of the Humbolt-Universität zu Berlin!

Compulsory area (62 LP)	One course must be selected from each module				
	Module 1	Module 2	Module 3	Module 4	Module 5
	Stochastik I HU-Math 10 1	Econometric Methods HU-WiWi 10 2.1 Methoden der Statistik HU-Math 10 2.2	Multivariate Statistical Analysis HU-WiWi 6 3.1 Multivariate Verfahren FU 6 3.2	Advanced Econometrics HU-WiWi 6 4.1 Statistik für Fortgeschrittene FU 6 4.2	Abschlußmodul (Master thesis) 30 5

Please note that all modules with a German title will be taught in German, all modules with an English title in English!

Elective subject area (48 LP)	At least two areas of specialization with at least 15 LP each must be selected						
	Statistical Inference	Econometrics	Quantitative Methods of Financial Markets	Survey Statistics	Applied Microeconomics and Quantitative Economic Research	Statistics in Life Sciences	Data Science
2 of 4	Multivariate Statistics and Non- and Semiparametric Modelling HU-WiWi 6 I.1	Microeconomics HU-WiWi 6 II.1.1	Time Series Analysis HU-WiWi 6 III.1.1	Stichprobenverfahren FU 6 IV.1	Empirical Labor Economics HU-WiWi 6 V.1	Statistik für Biowissenschaften I FU 6 VI.1	Machine Learning 1 TU 9 VII.1
	Statistical Programming Languages HU-WiWi 6 I.2.1	Microeconomics TU 6 II.1.2	Time Series Analysis TU 6 III.1.2	Neuere Statistische Methoden FU 6 IV.2	Applied Predictive Analytics HU-WiWi 6 V.2	Statistik für Biowissenschaften II FU 6 VI.2	Machine Learning 2 TU 9 VII.2
	Datenanalyse I HU-WiWi 6 I.2.2	Applied Microeconomics FU 6 II.1.3	Univariate Zeitreihenanalyse FU 6 III.1.3	Varianzschätzmethoden FU 6 IV.3	Business Analytics & Data Science HU-WiWi 6 V.3	Multivariate Verfahren in der Psychologie HU-Psych 8 VI.3	Künstliche Intelligenz: Grundlagen und Anwendungen TU 6 VII.3
	Datenanalyse II HU-WiWi 6 I.2.3	Time Series Analysis HU-WiWi 6 II.2.1	Multivariate Zeitreihenanalyse FU 6 III.2	Panel Surveys FU 6 IV.4	Advanced Marketing Modelling HU-WiWi 6 V.4	Trends in der psychologischen Methodenlehre HU-Psych 5 VI.4	Künstliche Intelligenz: Grundlagen, Anwendungen und Seminar TU 9 VII.4
	Computergestützte Statistik FU 6 I.2.5	Time Series Analysis TU 6 II.2.2	Introduction to Financial Econometrics TU 6 III.3	Small Area Schätzverfahren FU 6 IV.5	Microeconomics HU-WiWi 6 V.5.1	Statistische Beratung FU 6 VI.5	Monte Carlo Methods in Machine Learning and Artificial Intelligence TU 6 VII.5
	Neuere Statistische Methoden FU 6 I.3	Univariate Zeitreihenanalyse FU 6 II.2.3	Stochastische Finanzmathematik I HU-Math 10 III.4	Einführung in die Bayes-Statistik FU 6 IV.6	Microeconomics TU 6 V.5.2	Advanced Biometric Methods FU 5 VI.6	Probabilistic and Bayesian Modelling in Machine Learning and AI TU 6 VII.6
	Aktuelle Forschungsfragen der Statistik FU 6 I.4	Analysis of Panel Data HU-WiWi 6 II.3.1	Stochastische Finanzmathematik II HU-Math 10 III.5	Einführung in die Multiple Imputation FU 6 IV.7	Applied Microeconomics FU 6 V.5.3	Methods of Clinical Trials FU 5 VI.7	Projects in Machine Learning and Artificial Intelligence TU 6 VII.7
	Mathematische Statistik HU-Math 10 I.5	Econometric Analysis of Longitudinal and Panel Data TU 6 II.3.2	Ausgewählte Themen der Finanz- und Versicherungsmathematik HU-Math 6 III.6	Simulation und Stichprobenziehung FU 6 IV.8	Analysis of Panel Data HU-WiWi 6 V.6.1	Statistical Methods for Small Sample Sizes FU 5 VI.8	Regression-based Statistical Learning with R TU 6 VII.8
	Nichtparametrische Statistik HU-Math 10 I.6	Ökonometrische Analyse FU 6 II.4	Selected Topics in Quantitative Finance HU-WiWi 6 III.7	Seminar zur Survey Statistik FU 6 IV.9	Econometric Analysis of Longitudinal and Panel Data TU 6 V.6.2	Selected Topics in Statistics in the Life Sciences FU 5 VI.9	Statistical Learning and Machine Learning HU 6 VII.9
	Statistik stochastischer Prozesse HU-Math 5 I.7	Multivariate Zeitreihenanalyse FU 6 II.5	Stochastik II HU-Math 10 III.8	Computergestützte Statistik FU 6 IV.10	Estimation of Treatment Effects HU-WiWi 6 V.7.1	Resampling Techniques and Their Applications FU 5 VI.10	Advanced Data Analytics for Management Support HU 6 VII.10
	Statistische Beratung FU 6 I.8	Estimation of Treatment Effects HU-WiWi 6 II.6.1	Statistik stochastischer Prozesse HU-Math 5 III.9	Statistische Beratung FU 6 IV.11	Treatment Effects Analysis TU 6 V.7.2	Seminar Information Systems HU 6 VII.11	
	Statistical Inference I HU-WiWi 6 I.9	Treatment Effects Analysis TU 6 II.6.2	Ausgewählte Themen der Stochastik HU-Math 5 III.9	Selected Topics in Survey Statistics FU 6 IV.12	Econometric Projects HU-WiWi 6 V.8	Selected Topics in Data Science HU 6 VII.12	
	Statistical Inference II HU-WiWi 6 I.10	Econometric Projects HU-WiWi 6 II.7			Selected Topics in Econometrics HU-WiWi 6 V.9	Research Seminar in Data Science HU 6 VII.13	
	Generalized Regression HU-WiWi 6 I.11	Selected Topics in Econometrics HU-WiWi 6 II.8			Panel Surveys FU 6 V.10	Introduction to Natural Language Processing HU-Inf 6 VII.14	
	Advanced Regression Modelling HU-WiWi 6 I.12	Introduction to Financial Econometrics TU 6 II.9			Selected Topics in Applied Econometrics FU 6 V.11	Applied Predictive Analytics HU 6 VII.15	
	Selected Topics in Statistics HU-WiWi 6 I.13	Aktuelle Forschungsfragen der Ökonometrie FU 6 II.10				Business Analytics & Data Science HU 6 VII.16	
	Research Seminar in Statistics HU-WiWi 6 I.14					Machine Intelligence I TU 6 VII.17	
	Projektpraktikum II (Stochastik) HU-Math 5 I.15					Machine Intelligence II TU 6 VII.18	

The remaining LP can be chosen from all modules of the specialization areas and the following modules:

Maßtheorie HU-Math 6 6
Stochastik II HU-Math 10 7
Nutzung der Amtlichen Stat. in den Wirt.- und Sozialw. HU-WiWi 6 8
Further Modules from Master VWL HU-WiWi 6 8

Interdisciplinary Compulsory Elective Courses (10 LP): Modules from the module catalogs of other subjects intended for this purpose or central institutions of the universities participating in the program, for example						
Interdisciplinary elective courses from other schools of HU	Subject-specific and interdisciplinary courses from other universities	Subject-specific and interdisciplinary courses from universities abroad	HU Career Center courses	Language courses (note that special regulations for language courses exist)	Six-week internship, full-time or twelve weeks, half-time (the internship is not required as a mandatory internship)	