

Modul I: *Data Analytics*

Title	Language	ECTS	Lecturer
Machine Learning with Python! (SIN.08022)	E	5.0	Philippe Cudré-Mauroux (verantwortlich)
Databases*! (SIN.03024)	E	6.0	Hans-Georg Fill
Biostatistics I - generalized linear models and mixed effects models (SBL.20001)	E	3.0	Rudolf Philippe Rohr
Biostatistics II - multivariate analysis (SBL.20002)	E	3.0	Rudolf Philippe Rohr
Machine learning - Expectation Maximization and Markov Chain Monte Carlo (SBL.30002 replaces SBC.07102)	E	5.0	Daniel Wegmann
<i>Machine learning – Expectation Maximization and Markov Chain Monte Carlo (SBC.07102) replaced</i>	<i>E</i>	<i>4.0</i>	<i>Daniel Wegmann</i>
Introduction to R (SBL.30001 replaces SBC.07108)	E	2.0	Daniel Wegmann
<i>Introduction to R (SBC.07108) replaced</i>	<i>E</i>	<i>1.5</i>	<i>Daniel Wegmann</i>
Programming with R (SBC.07109)	E	1.0	Daniel Wegmann
Programmation Scientifique* (pour sciences biomédicales) (SIN.00121)	F	3.5	Jean Hennebert (verant.: Rolf Ingold)
<i>Data Analysis and Statistics with the R Programming Language (SME.07700) (Fall 2020 and Fall 2021)</i>	<i>E</i>	<i>3.0</i>	<i>Jean-Pierre Bresciani</i>
Inférence, Évaluation et Sélection de Modèles (EIG.00120)	F	4.5	Laurent Donzé
Méthodes de Classification (EIG.00121)	F	4.5	Laurent Donzé
Statistique Bayésienne (EIG.00027)	F	4.5	Laurent Donzé
Thèmes Choisis de Statistique Multivariée (EIG.00029)	F	4.5	Laurent Donzé
Big Data Methods (EEP.00142)	E	4.5	Martin Huber
Econometric Methods and Applications (EEP.00496 replaces EEP.00358, EEP.00140 and EEP.00141)	E	6.0	Martin Huber
<i>Applied Econometrics* (EEP.00358) replaced</i>	<i>E</i>	<i>4.5</i>	<i>Martin Huber</i>
<i>Econometric Methods and Applications I (EEP.00140) replaced</i>	<i>E</i>	<i>4.5</i>	<i>Martin Huber</i>
<i>Econometric Methods and Applications II (EEP.00141) replaced</i>	<i>E</i>	<i>4.5</i>	<i>Martin Huber</i>
Policy and Impact Evaluation (EEP.00143)	E	4.5	Martin Huber
Advanced Topics in Data Analytics and Machine Learning (EEP.00517)	E	1.5	Martin Huber
Project Seminar: Finance with R (EGE.00449)	E	4.5	Martin Wallmeier
Social Media Analytics (SIN.08609)	E	5.0	Philippe Cudré-Mauroux
Python Online Course (I09.00005)	E	3.0	Hans-Georg Fill

Courses marked with «*» may only be selected if they have not already been validated for a BA program. Programmation Scientifique can only be taken if Databases has been done within a BA program.

The two courses marked with «!» are mandatory.