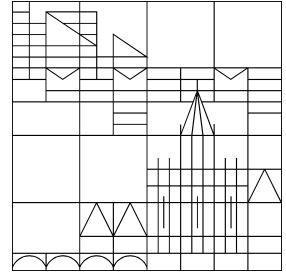


University of Konstanz
Faculty of Law, Economics and Politics
Department of Economics



Course Catalogue

**for the
Master's Programme
in Social and
Economic Data
Analysis/Science**

University of Konstanz
Department of Economics
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**Summer Semester
2018**

Version: 13/04/2018

Course Advice for Students of the Master's Programme in Social and Economic Data Science

Alexandra Morris
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Website: www.uni-konstanz.de/seds
Office Hours: Tuesday, Thursday, 10:00 – 12:00

Student Course Guidance:
Franziska Fobbe
Email: seds.msc@uni-konstanz.de

Dates of the Summer Semester 2018

Lectures begin: Monday, 16th April 2018
Lectures end: Saturday, 21st July 2018

Registration period of the Department of Economics:

Exam registration period: 26th June – 02nd July 2018
Examination period I: 12th July- 04th August 2018

Exam registration period: 11th September-17th September 2018
Examination period II: 4th October -27th October 2018

Seminar registration period for
Winter Semester 2018/19: 26th June – 02nd July 2018

Registration periods of the Department of Politics and Public Administration:

Exam registration period I: 01st May – 15th June 2018
Exam Registration II: 14th September – 19th September 2018

Exam Registration Periods of the Department of Computer and Information Science

Not yet online

Exam Registration Periods of the Department of History and Sociology

Registration period (StudIS): 1st May – 15th June 2018

Exam Registration Periods of the Department of Mathematics and Statistics

Registration: Students are able to apply via StudIS up to seven days before the exam.

Exam Registration Periods of the Department of Psychology

Not yet online

Dates of the Winter Semester 2018/19

Lectures begin:	Monday, 22 nd October 2018
Lecture-free period:	22 nd December, 2018 – 5 th January, 2019
Lectures end:	Saturday, 16 th February 2019

1. Foundations of Data Analysis Courses

Focus Area: Computer Sciences

Datenbanksysteme, 4+2 hours (9 ECTS)
Tuesday, 11:45 – 13:15, A 701
Thursday, 11:45 – 13:15, A 701

M. Scholl

Tutorial:

Group A: Tuesday, 13:30 – 15:00, P 601
Group B: Tuesday, 15:15 – 16:45, M 901
Group C: Wednesday, 15:15 – 16:45, P 601
Group D: Thursday, 08:15 – 09:45, Z 1003

M. Hotz

Konzepte der Informatik, 4+2 hours (6 ECTS)
Tuesday, 13:30 – 15:00, A 702
Friday, 10:00 – 11:30, A 702

B. Pampel

Tutorial:

Wednesday, 11:45 – 13:15, D 406
Thursday, 17:00 – 18:30, M 630

In combination with

Programmierkurs I, 2 hours (6 ECTS)
Wednesday, 10:00 – 11:30, L 602

J. Fuchs

Tutorials:

Monday, 15:15 – 16:45, L 829
Monday, 17:00 – 18:30, L 829
Tuesday, 15:15 – 16:45, ML 630

Konzepte der Programmierung, 4+2 hours (4 ECTS)
Monday, 10:00 – 11:30, M 629
Tuesday, 10:00 – 11:30, A 701

M.Grossniklaus

Tutorials:

6 Tutorials
For time and room see: ZEUS

in combination with:

Programmierkurs II, 2 hours (5 ECTS)
Monday, 13:30 – 15:00, A 701

M.Grossniklaus

Focus Area: Statistics

Statistics I (Dept. of Economics), 2+2 hours (6 ECTS)
Friday, 10:00 – 11:30, R 711

R. Brüggemann

Tutorials:
12 Tutorials
For time and room see ZEUS

Statistik (Dept. of Politics and Public Administration), 4 hours (9 ECTS)
Tuesday, 15:15 – 16:45, R 711
Wednesday, 10:00 - 11:30, R 711

S. Köhler

Statistik I (Dept. of Sociology), 2+2 hours (7 ECTS)
Monday, 10:00 – 11:30, R 513

M. Buis

Tutorial:
6 Tutorials
For time and room see ZEUS.

Focus Area: Social Scientific Methods

Econometrics I (Dept. of Economics), 4+2 hours (8 ECTS)
Thursday, 08:15 - 09:45, A 701
Friday, 08:15 - 09:45, A 701

W. Pohlmeier

Tutorials:
7 Tutorials
For time and room see ZEUS

2. Advanced Methods of Data Analysis Courses

Big Data Management and Analysis, 5+2 hours (6 ECTS)
Tuesday, 15:15 – 16:45, A 702

M.Grossniklaus

Tutorial:
Wednesday, 17:00 – 18:30, A 704

New course offer (not compulsory but targeted at MSc SEDS students):

Machine Learning, 2+1 hours (6 ECTS)
Mondays, 15:15 – 16:45, D 436
Mondays 17:00 – 18:30, fortnightly, V 203

L. Grigoryeva

Timetable Foundations of Data Analysis and Advanced Methods of Data Analysis Summer Semester 2018

Time	Monday	Tuesday	Wednesday	Thursday	Friday
8:15 – 9:45				Econometrics I (L) / Pohlmeier Datenbanksysteme (T) / Hotz	Econometrics I (L) / Pohlmeier
10:00 – 11:30	Konzepte der Programmierung (L) / Grossniklaus Statistik I (L) / Buis	Konzepte der Programmierung (L) / Grossniklaus	Statistik (L) / Köhler Programmierkurs I (L) / Fuchs		Statistics I (L) / Brüggemann Konzepte der Informatik (L) / Pampel
11:45 – 13:15		Datenbanksysteme (L) / Scholl	Konzepte der Informatik (T)	Datenbanksysteme (L) / Scholl	
13:30 – 15:00	Programmierkurs II (L) / Grossniklaus	Datenbanksysteme (T) / Hotz Konzepte der Informatik (L) / Pampel			
15:15 – 16:45	Programmierkurs I (T) / Fuchs Machine Learning (L) / Grigoryeva	Programmierkurs I (T) / Fuchs Statistik (L) / Köhler Datenbanksysteme (T) / Hotz Big Data Management and Analysis (L) / Grossniklaus	Datenbanksysteme (T) / Hotz		
17:00 – 18:30	Programmierkurs I (T) / Fuchs Machine Learning (T) / Grigoryeva		Big Data Management and Analysis (T) / Grossniklaus	Konzepte der Informatik (T)	

L = Lecture, T = Tutorial

PREVIEW WINTER SEMESTER 2018/19

1. Introduction to Computational Methods for the Social Sciences K. Donnay

2. Foundations of Data Analysis

Focus Area: Computer Sciences

Data Visualization, (6 ECTS) N.N.

Focus Area: Mathematics

Diskrete Mathematik und Logik, (9 ECTS) N.N.

Datenmathematik, (9 ECTS) N.N.

Mathematik für Wirtschaftswissenschaftler, 4 + 2 hours (9 ECTS) N.N.

Lineare Algebra, 4 + 2 hours (9 ECTS) N.N.

Focus Area: Statistics

Statistik I (Dept. of Psychology), 2 + 2 hours (6 ECTS) N.N.

Focus Area: Social Scientific Methods

Introduction to Survey Methodology, 2 + 2 hours (9 ECTS) N.N.

Methoden der emp. Politik- und Verwaltungsforschung, 4 hours (9 ECTS) N.N.

Empirie: Quantitative Methoden, 2 + 2 hours (6/7 ECTS) N.N.

Research Design I, 2 + 2 hours (9 ECTS) N.N.

Methoden I, (5 ECTS) N.N.

2. Advanced Methods: Computer Science

Konzepte der Programmierung (6 ECTS) in combination with
Programmierkurs III (6 ECTS) N.N.

3. Advanced Methods: Statistics

Advanced Econometrics, 3 + 2 hours (10 ECTS) N.N.

Advanced Time Series Analysis, (8 ECTS) N.N.

4. Programming and Scripting

Data Analysis with R, (7 ECTS) N.N.

Programmierkurs I, (6 ECTS) N.N.

Programmierkurs III, (6 ECTS) N.N.