Course Catalogue

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

Summer Semester 2018

Version: 13/04/2018
Course Advice for Students of the
Master's Programme in Social and Economic Data Science

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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): 1\textsuperscript{st} May – 15\textsuperscript{th} 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\textsuperscript{nd} October 2018
Lecture-free period: 22\textsuperscript{nd} December, 2018 – 5\textsuperscript{th} January, 2019
Lectures end: Saturday, 16\textsuperscript{th} February 2019
1. Foundations of Data Analysis Courses

Focus Area: Computer Sciences

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

Tutorial:  
M. Hotz  
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

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

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

In combination with

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

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)  
M. Grossniklaus  
Monday, 10:00 – 11:30, M 629  
Tuesday, 10:00 – 11:30, A 701

Tutorials:  
6 Tutorials  
For time and room see: ZEUS

in combination with:

Programmierkurs II, 2 hours (5 ECTS)  
M. Grossniklaus  
Monday, 13:30 – 15:00, A 701
Focus Area: Statistics

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

Tutorials:
12 Tutorials
For time and room see ZEUS

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

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

Tutorial:
6 Tutorials
For time and room see ZEUS.

Focus Area: Social Scientific Methods

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

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)  M. Grossniklaus
Tuesday, 15:15 – 16:45, A 702

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)  L. Grigoryeva
Mondays, 15:15 – 16:45, D 436
Mondays 17:00 – 18:30, fortnightly, V 203
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<tr>
<th>Time</th>
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**L = Lecture, T = Tutorial**
1. Introduction to Computational Methods for the Social Sciences  
K. Donnay

2. Foundations of Data Analysis

Focus Area: Computer Sciences
Data Vizualisation, (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.