Course Catalogue
Winter Semester 2022/23

Version: 13 Oct 2022

Website: polver.uni.kn/seds

Postal address
University of Konstanz
Department of Politics and Public Administration
78457 Konstanz
Germany

Course Advice for Students of the Master's Program in Social and Economic Data Science
Kathrin Isabelle Krautheimer
Room: D328
+49 (0)7531 88-4494
seds.admin@uni-konstanz.de

Office Hours during lecture period
Tuesday, 11-12 AM, online via zoom
Wednesday, 2-4 PM, on-site in D328

Student Course Guidance
Orr Borin
seds.msc@uni-konstanz.de
### Dates of the winter semester 2022/23

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Start of term</td>
<td>01.10.2022</td>
</tr>
<tr>
<td>End of term</td>
<td>31.03.2023</td>
</tr>
<tr>
<td>Registration for lectures and seminars</td>
<td>See “basic data” of respective courses on ZEuS or departments’ websites</td>
</tr>
<tr>
<td>Beginning of lectures</td>
<td>24.10.2022</td>
</tr>
<tr>
<td>End of lectures</td>
<td>11.02.2023</td>
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<tr>
<td>Lecture-free period around Christmas</td>
<td>24.12.22 – 08.01.2023</td>
</tr>
<tr>
<td>Examination period</td>
<td>February 2023</td>
</tr>
<tr>
<td>Resit examination period</td>
<td>March/April 2023</td>
</tr>
<tr>
<td>Registration periods for exams and resit exams</td>
<td>Click here</td>
</tr>
</tbody>
</table>

Further details regarding semester dates are available on the following website.

Please note that the only fully reliable information on the exam dates can be found on ZEuS.

**Important information:**

The Master’s Programme in Social and Economic Data Science is an interdisciplinary program where you attend classes in various departments. Therefore, please always double check the information regarding coursework and exams via ZEuS.

**Registration for courses:**

Please note, that students must register via ZEuS for the courses they want to attend during the semester. Here you can find a guideline how to register for the courses. Please take care of the different registration deadlines of the participating departments. You will find further details on ZEuS or on the respective departments’ websites.

**Registration for exams:**

Please, also register for exams via ZEuS. An explanation how to generate your TANs in ZEuS, may be found in the ZEuS-Wiki. Should you have any problems registering for exams, please contact the ZEuS support team: zeus.support@uni-konstanz.de.
Preparatory courses for new master's students (free of charge)

Offered in October 2022.

**Department of Politics and Public Administration**

**Python Crash Course**
Can be credited in the module “Programming and Scripting” (p. 8)
17/10/22 – 21/10/22 (all-day) in room C358.
Registration via our website.

**Prep Course: Research Methods and Statistics**
10/10/22 – 21/10/22 (Mon, Wed, Fri, 10.00 to 13:15 in room A702)
See: [ZEuS](#)

**Department of Economics**

**Prep Course: Econometrics I**
12+13/10/22 and 17+18/10/22 (08:15 to 09:45 AM).
See: [ZEuS](#)

**Prep Course: Quantitative Methods in Economics**
10/10/22 – 14/10/22.
See: [ZEuS](#)

**Department of Computer Sciences**

**Kompaktkurs Mathematik 1** (Duration: 5 days, German only)
10/10/22 – 14/10/22
See: [ZEuS](#)
# 1. Introduction to Computational Methods for the Social Sciences

**Introduction to Computation for the Social Sciences**, 2+2 hours, 9cr  
D. Garcia  
Thu, 1:30 – 3:00 PM, L601  
See: ZEuS  
Tutorial (2 hours), 2 groups

<table>
<thead>
<tr>
<th>Group 1</th>
<th>Thu</th>
<th>15:15 PM – 16:45 PM</th>
<th>Weekly</th>
<th>D432</th>
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<tbody>
<tr>
<td>Group 2</td>
<td>Fri</td>
<td>10:00 AM -11:30 AM</td>
<td>Weekly</td>
<td>E403</td>
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</table>

Please note: In preparation for “Introduction to Computation for the Social Sciences” we advise all new MSc SEDS Students to take the **Python Crash Course** in October.

# 2. Foundations of Data Science

**Focus Area: Computer Sciences**

**Konzepte der Informatik**, 4+2 hours, 6cr  
B. Pampel  
Mon, 10:00 AM - 11:30 AM, R513  
Tue, 10:00 AM - 11:30 AM, R611  
(Recorded lectures on ILIAS)  
See: ZEuS  
Tutorial (2 hours), 6 groups

<table>
<thead>
<tr>
<th>Group 1</th>
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<td>Fri</td>
<td>1:30 PM - 3:00 PM</td>
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*Only in combination with:*

**Programmierkurs I (Imperative Sprache)**, 2+2 hours, 6cr  
J. Fuchs  
Tue, 1:30 PM - 3:00 PM, R513  
See: ZEuS (registration via ILIAS mandatory)  
Tutorials (2 hours), 6 groups

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**Data Mining: Basic Concepts**, 2+2 hours, 6cr  
D. Keim  
Thu, 11:45 AM - 1:15 PM, A702  
See: ZEuS  
Tutorial (2hours), 3 groups

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**Focus Area: Mathematics**

**Diskrete Mathematik und Logik**, 4+2 hours, 9cr  
S. Kosub  
Wed, 10:00 AM - 11:30 AM, R513  
Thu, 10:00 AM - 11:30 AM, R513  
See: ZEuS  
Tutorial (2 hours), 6 groups

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**Lineare Algebra I**, 4+2 hours, 6+3cr  
M. Michalek  
Mon, 10:00 AM - 11:30 AM, R712  
Thu, 10:00 AM - 11:30 AM, R712  
See: ZEuS  
Tutorial (2 hours), 1 group

| Group 1 | Wed  | 10:00 AM - 11:30 AM | Weekly | R611 |

**Mathematik für Wirtschaftswissenschaftler I**, 4+2 hours, 9cr  
J. Schropp  
Mon, 8:15 AM - 9:45 AM, A600  
Thu, 10:00 AM - 11:30 AM, A600  
See: ZEuS  
Tutorial (2 hours), 11 groups

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**Datenmathematik**, 4+2 hours, 9cr  
S. Kosub  
Tue, 3:15 PM - 4:45 PM, R611  
Thu, 1:30 PM - 3:00 PM, R513  
See: ZEuS  
Tutorial (2 hours), 4 groups

<table>
<thead>
<tr>
<th>Group 1</th>
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<td>Thu</td>
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**Mathematics for Political Science**, 7cr  
J. Vogler  
Mon, 5:00 PM - 6:30 PM, C358  
See: ZEuS

**Focus Area: Social-Scientific Methods**

**Introduction to Survey Methodology**, 2+2 hours, 6cr lecture + 3cr tut  
P. Selb  
Thu, 11:45 AM - 1:15 PM, R512  
See: ZEuS  
Tutorial (2 hours), 3 groups

<table>
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<tr>
<th>Group 1</th>
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**Research Design I: Research Design and Causal Inference**, 9cr  
P. Selb  
Tue, 11:45 AM - 1:15 PM, weekly, P603  
Tue, 11:45 AM - 1:15 PM, weekly, F425  
Tue, 11:45 AM - 1:15 PM, weekly, D522  
Tue, 11:45 AM - 1:15 PM, weekly, D431  
See: ZEuS
Empirical Research Methods, 9cr
Tue, 3:15 PM - 4:45 PM, R712
Wed, 8:15 AM - 9:45 AM, R712
See: ZEuS

Empirie: Quantitative Methoden, 6cr
Tue, 3:15 PM - 4:45 PM, M629
Single date Feb 17,2023: 10:00 AM - 11:30 AM
Tutorial (2 hours), 6 groups
See: ZEuS

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Focus Area: Statistics

Statistics 1 (PSY), 5cr
Tue, 11:45 AM - 1:15 PM, R513
Wed, 11:45 AM - 1:15 PM, R513
See: ZEuS

Statistics (LIN), 6cr
Wed, 3:15 PM - 4:45 PM, G209
See: ZEuS

Datenmathematik, 4+2 hours, 9cr
See Focus Area: Mathematics

Einführung in die Bayes-Statistik, 4cr
Wed, 10:00 AM – 11:30 AM, C426
See: ZEuS

3. Advanced Methods: Computer Science

Konzepte der Programmierung, 6cr
Tue, 8:15 AM - 9:45 AM, A704
Wed, 8:15 AM - 9:45 AM, A704
See: ZEuS
Tutorial (2 hours), 4 groups

<table>
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*Only in combination with:*

**Programmierkurs III**, 2 hours, 3cr  
M. Grossniklaus  
Wed, 1:30 PM - 3:00 PM, A704  
See: [ZEuS](#)

**Optimization for Data Science**, 6cr  
T. Sutter  
Wed, 11:45 AM - 1:15 PM, M628  
See: [ZEuS](#)

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**Data Visualization: Advanced Topics**, 6cr  
J. Fuchs  
Tue, 11:45 AM - 1:15 PM, ZT1202  
See: [ZEuS](#)

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**Data Mining: Basic Concepts**, 2+2 hours, 6cr  
D. Keim  
Thu, 11:45 AM - 1:15 PM, A702  
See: [ZEuS](#)

**Word Representations and Language Models**, 6cr  
A. Spitz  
Mon, 11:45 AM - 1:15 PM, ZT1202  
Thu, 10:00 AM - 11:30 AM, ZT1202  
See: [ZEuS](#)

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**Geographic Information Systems**, 6cr  
D. Keim  
Tue, 1:30 PM - 3:00 PM, ZT1202  
See: [ZEuS](#)

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**Algorithm Engineering**, 6cr  
S. Storandt  
Wed, 10:00 AM - 11:30 AM, P603  
See: [ZEuS](#)

**Applications for Powerwall and Virtual Reality Environments**, 6cr  
D. Keim  
Wed, 5:00 PM - 6:30 PM, ZT1202  
See: [ZEuS](#)

**Randomized Algorithms**, 6cr  
tba  
S. Storandt  
See: [ZEuS](#)
Seminar Data Analysis and Visualization, 3cr  
Tue, 3:15 PM – 4:45 PM, ZT1202  
See: ZEuS  

D. Keim

4. Advanced Methods: Statistics

Advanced Econometrics, 4 hours, 10cr  
Wed, 8:15 AM - 9:45 AM, G530  
Fri, 8:15 AM - 9:45 AM, G227  
See: ZEuS  
Tutorial (2 hours), 1 group

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Advanced Time Series Analysis, 8cr  
Mon, 10:00 AM - 11:30 AM, G227a  
Fri, 10:00 AM - 11:30 AM, F425  
See: ZEuS

Topics in Advanced Econometrics, 6cr  
Fri, 11:45 AM - 1:15 PM, H305  
See: ZEuS

Einführung in die Bayes-Statistik, 4cr  
Wed, 10:00 AM – 11:30 AM, C426  
See: ZEuS

Regression Analysis, 6cr  
Fri, 1:30 PM - 3:00 PM, G530  
See: ZEuS

Datenmathematik, 4+2 hours, 9cr  
Tue, 3:15 PM - 4:45 PM, R611  
Thu, 1:30 PM - 3:00 PM, R513  
See: ZEuS

Tutorial (2 hours), see above (Focus Area: Mathematics)

5. Programming and Skripting

Python Crash Course, 6cr  
O. Borin et al
October 2022, 17/10/22 – 21/10/22 (all-day), C358  
Please note: This course is recommended as preparation for "Introduction to Computation for the Social Sciences". Registration via our website.

Data Analysis with R (in German), 2 hours, 7cr  
M. Herrmann
Thu, 11:45 AM - 1:15 PM, BS217  
See: ZEuS
Programmierkurs I (Imperative Sprache), 6cr
Details above (p.4)  
J. Fuchs

Programmierkurs III, 2 hours, 3cr
Wed, 1:30 PM - 3:00 PM, A704 
See: ZEuS

Linguistic Gaming with Python, 6cr
Fri, 11:45 AM - 1:15 PM, G209 
See: ZEuS
Q. Yu

Deep Learning with Python, 9cr
Tue, 1:30 PM - 3:00 PM, G209 
See: ZEuS
D. Frassinelli

R Basic Bootcamp (Blockcourse), 6cr
Single date, Fri, 4/11/22, 3:00 PM - 6:30 PM, ZfP 015 Raum 2 Haus 22 EG 
Single date, Sat, 5/11/22, 9:00 AM - 4:30 PM, ZfP 015 Raum 2 Haus 22 EG 
Single date, Fri, 18/11/22, 1:30 PM - 6:30 PM, digital 
Single date, Sat, 19/11/22, 9:00 AM - 3:00 PM, digital 
See: ZEuS
E. Unternährer

6. Social Science Applications

Computational Modeling of Social Systems, 2 hours, 6cr
Mon, 10:00 – 11:30, E402 
See: ZEuS
D. Garcia

Deep Learning with Python, 9cr
Tue, 1:30 PM - 3:00 PM, G209 
See: ZEuS
D. Frassinelli

Neurolinguistics, 9cr
Mon, 11:45 AM - 1:15 PM, G209 
See: ZEuS
C. Eulitz

The Politics of Inequality - Comparative Perspectives, 7cr
Tue, 3:15 PM - 4:45 PM, Y310 
See: ZEuS
S. Koos

Perception of Speaker Characteristics, 7cr
Thu, 3:15 PM – 4:45 PM, G309 
See: ZEuS
T. Rathcke/ S. Shikano

Strukturgleichungsmodelle, 4cr
Tue, 8:15 PM - 9:45 PM, D522 
See: ZEuS
D. Jendryczko

Einführung in die Bayes-Statistik, 4cr
Wed, 10:00 AM – 11:30 AM, C426 
See: ZEuS
F. Nussbeck

Measurement of Inequality, 6cr
Wed, 10:00 AM – 11:30 AM, G309 
M. Buis
See: ZEuS

Regression Analysis, 6cr
Fri, 1:30 PM - 3:00 PM, G530
See: ZEuS
<table>
<thead>
<tr>
<th>Time</th>
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<tr>
<td>8:15 – 9:45</td>
<td>Mathematik für Wirtschaftswissenschaftler I</td>
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<td>Empirical Research Methods</td>
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<td>10:00 – 11:30</td>
<td>Konzepte der Informatik Lineare Algebra I</td>
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<td>Diskrete Mathematik und Logik</td>
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<td>Research Design I: Research Design and Causal Inference</td>
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<td>13:30 – 15:00</td>
<td>Programmierkurs I</td>
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<td>Datenmathematik</td>
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<td>15:15 – 16:45</td>
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<td>17:00 – 18:30</td>
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<td>Computational Modeling of Social Systems</td>
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<td>Word Representations and Language Models</td>
<td>Data Mining</td>
<td>Optimization for Data Science</td>
<td>Data Analysis with R</td>
<td>Topics in Advanced Econometrics</td>
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<td>Neurolinguistics</td>
<td>Data Visualization: Advanced Topics</td>
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<td>Data Mining: Basic Concepts</td>
<td>Linguistic Gaming with Python</td>
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<td>13:30 – 15:00</td>
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<td>Programmierkurs III</td>
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<td>17:00 – 18:30</td>
<td>Applications for Powerwall and Virtual Reality Environments</td>
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