Course Catalogue
Winter Semester 2023/24

Version: 10 August 2023

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
Katharina Arendt
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, 1.30-3 pm, on-site in D328 with appointment

Student Course Guidance
Zoé Wolter
seds.msc@uni-konstanz.de
Dates of the winter semester 2023/24

<table>
<thead>
<tr>
<th>Event</th>
<th>Date/Period</th>
</tr>
</thead>
<tbody>
<tr>
<td>Start of term</td>
<td>01.10.2023</td>
</tr>
<tr>
<td>End of term</td>
<td>31.03.2024</td>
</tr>
<tr>
<td>Registration for lectures and seminars for winter semester</td>
<td>See “basic data” of respective courses on ZEuS or departments’ websites</td>
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<tr>
<td>(differ between departments)</td>
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<tr>
<td>Beginning of lectures</td>
<td>23.10.2023</td>
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<tr>
<td>End of lectures</td>
<td>10.02.2024</td>
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<tr>
<td>Lecture-free period around Christmas</td>
<td>23.12.2023 – 07.01.2024</td>
</tr>
<tr>
<td>Examination period</td>
<td>February 2023</td>
</tr>
<tr>
<td>Resit examination period</td>
<td>March/April 2023</td>
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<tr>
<td>Registration periods for exams and resit exams</td>
<td>Click here</td>
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<td>(differ between departments)</td>
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</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 2023.

Department of Politics and Public Administration

Python Crash Course / Introduction to Programming with Python
Can be credited in the module “Programming and Scripting” (p. 10)
16/10/2023 – 20/10/2023 (all-day) in room C358 and D406.
See: ZEuS

Prep Course: Research Methods and Statistics
M. Herrmann
09/10/2023 – 20/10/2023 (Mon, Wed, Fri, 10.00 to 13:15 in room L602)
See: ZEuS

Department of Economics

tba

Department of Computer Sciences

Kompaktkurs Mathematik 1 (Duration: 5 days, German only)  
S. Kosub
09/10/23, 2:30 – 4.45 PM, R513
10/10/23 – 13/10/23, 9:00 AM – 4.45 PM, R513
See: ZEuS
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## 1. Introduction to Computational Methods for the Social Sciences

*Introduction to Computation for the Social Sciences*, 9cr  
D. Garcia  
Mo, 13:30 – 16:00 PM, F425  
See: ZEuS  
Tutorial (2 hours), 2 groups

<table>
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<th>Group 1</th>
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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*, 6cr  
B. Pampel  
Mon, 11:45 AM - 13:15 PM, R711  
Tue, 10:00 AM - 11:30 AM, R711  
See: ZEuS  
Tutorial (2 hours), 6 groups

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*Only in combination with:*

**Programmierkurs I (Imperative Sprache), 6cr**  
M. Grossniklaus / S. Storanld  
*Tue, 13:30 PM – 15:00 PM, R711*  
See: [ZEuS](#) (registration via ILIAS mandatory)  
Tutorials (2 hours), 6 groups

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**Data Mining: Basic Concepts, 6cr**  
D. Keim  
*Thu, 11:45 AM – 13:15 PM, G201*  
See: [ZEuS](#)  
Tutorial (2hours), 3 groups

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**Seminar Data Analytics and Computational Statistics (INF), 3cr**  
J. Lederer  
Block seminar on Zoom  
See: [ZEuS](#)

**FOCUS AREA: Mathematics**

**Diskrete Mathematik und Logik, 9cr**  
B. Goldlücke  
*Mon, 10:45 AM – 11:30 AM, M629*  
See: [ZEuS](#)  
Tutorial (2 hours), 6 groups

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Lineare Algebra I, 6+3cr  
Mon, 10:00 AM – 11:30 AM, R712  
Thu, 10:00 AM – 11:30 AM, R712  
See: ZEuS  
Tutorial (2 hours), 1 group

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Mathematik für Wirtschaftswissenschaftler*innen I, 9cr  
Mon, 10:00 AM – 11:30 AM, R711  
Thu, 10:00 AM – 11:30 AM, R711  
See: ZEuS  
Tutorial (2 hours), 9 groups

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Datenmathematik, 9cr  
Tue, 15:15 PM – 16:45 PM, R512  
Thu, 13:30 PM – 15:00 PM, R513  
See: ZEuS  
Tutorial (2 hours), 4 groups

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Mathematics for Political Science, 7cr  
Mon, 17:00 PM – 18:30 PM, C358  
See: ZEuS
FOCUS AREA: Social-Scientific Methods

**Introduction to Survey Methodology**, 6cr lecture + 3cr tut P. Selb
Thu, 11:45 AM – 13:15 PM, G300
See: ZEuS
Tutorial (2 hours), 3 groups

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**Research Design I: Research Design and Causal Inference**, 9cr P. Selb
Tue, 11:45 AM – 13:15 PM, weekly, D301
Tue, 11:45 AM – 13:15 PM, weekly, G421
Tue, 11:45 AM – 13:15 PM, weekly, E402
Tue, 11:45 AM – 13:15 PM, weekly, D432
See: ZEuS

**Empirical Research Methods**, 9cr S. Shikano
Tue, 11:45 AM – 13:15 PM, Konzil1
Tue, 13:30 PM – 15:00 PM, Konzil1
See: ZEuS

**Empirie: Quantitative Methoden**, 6cr B. Combet
Tue, 11:45 PM – 13:15 PM, R513
See: ZEuS
Tutorial (2 hours), 6 groups

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**Methoden & Geschichte der Psychologie**, 5cr U. Reips
Mon, 15:15 PM – 16:45 PM, R711
Mon, 17:00 PM – 18:30 PM, R711
See: ZEuS
Tutorial (2 hours), 6 groups
FOCUS AREA: Statistics

Statistics 1 (PSY), 5cr
Y. Shevchenko / M. Miccoli
Tue, 11:45 AM – 13:15 PM, R712
Wed, 13:30 PM – 15:00 PM, R712
See: ZEuS

Statistics 1 (ECO), 6cr
R. Brüggemann
Mon, 13:30 PM – 15:00 PM, R513
See: ZEuS
Tutorial (2 hours), 6 groups

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Seminar Data Analytics and Computational Statistics (INF), 3cr
J. Lederer
Block seminar on Zoom
See: ZEuS

Statistics (LIN), 6cr
M. Canzi
Thu, 17:00 PM – 18:30 PM, G209
See: ZEuS

Datenmathematik, 9cr
T. Sutter
See Focus Area: Mathematics

3. Advanced Methods: Computer Science

Konzepte der Programmierung, 6cr
M. Grossniklaus
Mon, 17:00 PM – 18:30 PM, R513
Tue, 17:00 PM – 18:30 PM, R611
See: ZEuS
Tutorial (2 hours), 4 groups

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Only in combination with:

Programmierkurs III, 3cr  G. Diatzko
Mon, 15:15 PM – 16:45 PM, R512
See: ZEuS

Data Visualization: Advanced Topics, 6cr  J. Fuchs
Tue, 10:00 AM – 11:30 AM, ZT1202
See: ZEuS

Group 1  Fri  13:30 PM – 15:00 PM  Weekly  ZT1202

Data Mining: Basic Concepts, 6cr  D. Keim
Thu, 11:45 AM – 13:15 PM, G201
See: ZEuS
Tutorial (2hours), 3 groups

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Word Representations and Language Models, 6cr  A. Spitz
Mon, 11:45 AM – 13:15 PM, ZT702
Thu, 10:00 AM – 11:30 AM, ZT702
See: ZEuS

Geographic Information Systems, 6cr  D. Keim
Tue, 13:30 PM – 15:00 PM, ZT1202
See: ZEuS

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Algorithm Engineering, 6cr  S. Storandt
Digital self-study (semester course)
See: ZEuS

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Applications for Powerwall and Virtual Reality Environments, 6cr  D. Keim
Wed, 17:00 PM – 18:30 PM, ZT1202
See: ZEuS

Randomized Algorithms, 6cr  S. Storandt
Digital self-study (semester course)
See: ZEuS
Seminar Data Analysis and Visualization, 3cr.  
Tue, 15:15 PM – 16:45 PM, ZT1202  
See: ZEuS

Image Analysis II: 3D and Motion Reconstruction, 6cr  
Wed, 10:00 AM – 11:30 AM, P602  
See: ZEuS

4. Advanced Methods: Statistics

Statistical Learning, 6cr  
T. Shafiei  
26.01.2024 – 16.02.2024  
Fri, 09:00 AM – 13:15 PM, E402  
Fri, 13:30 PM – 15:00 AM, G310  
See: ZEuS

Statistical Analysis of Social Networks, 3cr  
T. Shafiei  
04.03.2024 – 19.03.2024  
Mon, 08:15 AM – 13:15 PM, D433 and 13:30 – 18:30, G310  
Tue, 08:15 AM – 13:15 PM, D433 and 13:30 – 18:30, G310  
See: ZEuS

Event History/Sequence Analysis, 7cr  
S. Shikano  
Mon, 11:45 AM – 13:15 PM, D433  
See: ZEuS

Statistics and Machine Learning in High Dimensions, 6cr  
J. Lederer  
Block seminar on Zoom  
See: ZEuS

Advanced Time Series Analysis, 8cr  
R. Brüggemann  
Mon, 10:00 AM - 11:30 AM, tba  
Fri, 10:00 AM - 11:30 AM, tba  
See: ZEuS

Regression Analysis, 6cr  
M. Buis  
Fri, 10:00 AM -11:30 AM, F427  
See: ZEuS

Datenmathematik, 9cr  
T. Sutter  
See Focus Area: Mathematics
5. Programming and Scripting

**Python Crash Course / Introduction to Programming with Python**
Indira Senn et al
16/10/2023 – 20/10/2023 (all-day) in room C358 and D406.
See: ZEuS
Please note: This course is recommended as preparation for "Introduction to Computation for the Social Sciences".

**Data Analysis with R (in German)**, 7cr
M. Herrmann
Thu, 10:00 AM – 11:30 AM, BS217
See: ZEuS

**Data Analysis mit R (in German)**, 7cr
M. Herrmann
Thu, 11:45 AM - 1:15 PM, BS217
See: ZEuS

**Programmierkurs I (Imperative Sprache)**, 6cr
J. Fuchs
See Focus Area: Computer Sciences

**Programmierkurs III**, 2 hours, 3cr
G. Diatzko
See Advanced Methods: Computer Sciences

**R Bootcamp (Blockcourse)**, 6cr
M. Meier
Single date, Fri, 01/12/2023, 13:30 PM – 18:00 PM, ZfP 310 Seminarraum Haus 35 DG
Single date, Sat, 02/12/2023, 09:00 AM – 15:00 PM, ZfP 310 Seminarraum Haus 35 DG
Single date, Fri, 15/12/2023, 13:30 PM – 18:00 PM, ZfP 310 Seminarraum Haus 35 DG
Single date, Sat, 16/12/2023, 09:00 AM – 15:00 PM, ZfP 310 Seminarraum Haus 35 DG
See: ZEuS

6. Social Science Applications

**Strukturgleichungsmodelle**, 4cr
D. Jendryczko
Wed, 10:00 AM – 11:30 AM, F429
See: ZEuS

**Statistical Analysis of Social Networks**, 3cr
T. Shafiei
04.03.2024 – 19.03.2024
Mon, 08:15 AM – 13:15 PM, D433, and 13:30 – 18:30, G310
Tue, 08:15 AM – 13:15 PM, D433 and 13:30 – 18:30, G310
See: ZEuS

**Statistical Learning**, 6cr
T. Shafiei
26.01.2024 – 16.02.2024
Fri, 09:00 AM – 13:15 PM, E402
Fri, 13:30 PM – 15:00 AM, G310
See: ZEuS

**The Social Informatics of Large Language Models**, 6cr
D. Garcia
Tue, 10:00 AM – 11:30, Y311
See: ZEuS
Measurement of Inequality, 6cr  
Wed, 10:00 AM – 11:30 AM, E402  
See: ZEuS

Regression Analysis, 6cr  
Fri, 10:00 AM -11:30 AM, F427  
See: ZEuS
<table>
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<th>Time</th>
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| 10:00 – 11:30 | - Lineare Algebra I  
- Diskrete Mathematik und Logik  
- Mathematik für Wirtschaftswissenschaftler*innen I | - Konzepte der Informatik                                               | - Lineare Algebra I  
- Mathematik für Wirtschaftswissenschaftler*innen I |                                                                         |                                                                         |
- Statistics 1 (PSY)  
- Empirical Research Methods  
- Empirie: Quantitative Methoden | - Data Mining: Basic Concepts  
- Introduction to Survey Methodology                                    |                                                                         |                                                                         |
| 13:30 – 15:00 | - Introduction to Computation for the Social Sciences  
- Statistics 1 (ECO) | - Programmierkurs I  
- Empirical Research Methods                                           | - Statistics 1 (PSY)                                                    |                                                                         | - Datenmathematik                                                      |
| 15:15 – 16:45 | - Introduction to Computation for the Social Sciences  
- Methoden & Geschichte der Psychologie |                                                                         | - Datenmathematik                                                       |                                                                         |                                                                         |
| 17:00 – 18:30 | - Mathematics for Political Science  
- Methoden & Geschichte der Psychologie |                                                                         |                                                                         | - Statistics (LIN)                                                     |                                                                         |