UNIVERSITÄT
DUISBURG
ESSEN

**Offen** im Denken

# Mikroökonometrie/Microeconometrics     Summer term 2025

**Course Objectives**
This course offers an introduction to linear and nonlinear microeconometric models and estimation methods.

**Course Content**

1. Research questions in empirical analysis
2. Data types and evaluation methods
3. Descriptive and causal analysis
4. The paradigm of experimental analysis and the problems of non-experimental data in social sciences
5. The issue of causal analysis using the example of evaluating economic and social policy measures
6. Nonlinear statistical models and estimation methods
7. Regression models as special cases of statistical models
8. Specific microeconometric methods and models (linear panel models, models for discrete dependent variables, censoring, matching, duration analysis)

**Suggested reading**
Cameron/Trivedi, Microeconometrics
Manski, Identification in the Social Sciences
Wooldridge, Econometrics of Cross Section and Panel Data

**Recommended Prerequisites**
Basic knowledge of statistics and multiple linear regression analysis.

**Teaching format**

As part of this course, we will be applying the **inverted classroom** concept to promote active learning and deepen students' understanding of the material. In the flipped classroom, we will inverse the traditional teaching structure so that students engage with the teaching material **before** class and then apply their knowledge during class through various activities, such as problem-solving, discussions, and group work.

I expect students in inverted classrooms to take an **active role** in their learning and come to class **prepared** to apply and build upon their pre-class work. The inverted classroom will not be a traditonal lecture or tutorial and crucially depends on the preparedness of the students. Without any preparation, there will not be a productive inverted classroom.

**Registration**
Please register for this course on Moodle. The access password will be provided by Lisa-Marie Duletzki via email.

**Schedule**
We will start with an introductory event on **April 7**, from 10-12 in the PC Hall (A-003). The exercises will be held on Mondays from 10:15-11:45 am and will be conducted by Lisa-Marie Duletzki. The inverted classrooms will take place on Mondays from 14.15-15.45 with Prof. Kühnle in room WST-A.12.04.

**Before First Class:**

Please get familiar with the virtual desctop access (https://www.uni-due.de/cvis/infos_client.php )

When you are not part of the faculty (e.g. from master mathematics or another Ruhr University) contact me in advance regarding Stata! (lisa-marie.duletzki(at)uni-due.de)