

Introductory Econometrics

Instructors:

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Meeting times and locations:

Lecture: Thursday, 2:15pm - 3:45pm in HS Ö2, starts on Oct, 15th
Practical Class IBE: Thursday, 4:15pm - 5:45pm in HS 14, starts on Oct, 22nd
Practical Class AgEcon: Wednesday, 8:15am - 9:45am in HS 14, starts on Oct, 14th

Course description:

The aim of the course is to make students acquainted with econometric techniques frequently used in applied economic research. It provides a modern treatment of methods and models suitable for the analysis of cross-section, time series and panel data. After successfully attending this class students are expected to be able to select a proper statistical method for investigating an economic problem and to meaningfully interpret the results obtained by using a statistical software package.

Practical class:

The lecture is accompanied by weekly practical classes taught by Mira Frommknecht, Vladimir Korovin and Stephanie Glaser. The aim of the classes is to repeat important concepts discussed in the lecture and demonstrate their practical application using real world data sets and a statistical software package. Each student is only expected to attend one of these weekly classes. In the class on Wednesday students will work with **STATA** in the class on Thursday with **gretl**. **STATA** is a commercial software which is available in the pc lab. **gretl** is a free, open-source, cross-platform software package and is available from <http://gretl.sourceforge.net/>.

Grading:

Evaluation will be based on two facultative assignments and a final exam (90 minutes). Up to 5 points (out of 100) for the course grade can be earned through each facultative (individual) assignment. Earned points from assignments can only be combined with exam results from winter term 2015/2016 or summer term 2016.

To pass the course, a minimum of 50 points (out of 100) must be reached on the exam.

Literature:

Main textbook for the course is

Stock, J.H. and Watson, M.M. (2012) *Introduction to Econometrics*, Pearson (3rd ed.)

Additional reading material:

- Kmenta, J. (1986) *Elements of Econometrics*, MacMillan (2nd ed.).
- Verbeek, M. (2012) *A Guide to Modern Econometrics*, Wiley, (4th ed.).
- Wooldridge, J. (2013) *Introductory Econometrics. A Modern Approach*, Cengage Learning (4th ed.).

Course materials:

Lecture slides, data sets, assignments and additional material will be available via ILIAS <https://ilias.uni-hohenheim.de>.

Course outline:

1. Linear Regression with One Regressor
2. Linear Regression with Multiple Regressors
3. Multiple Regression Analysis: Further Issues
4. Regression Analysis with Panel Data
5. Regression with a Binary Dependent Variable
6. Instrumental Variables Regression
7. Regression Analysis of Time Series Data