

# PhD Course: Econometrics

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## 1 Course Structure

The course takes place from March 21 - March 25, 2011 (Monday - Friday) and from April 04 - April 08, 2011 (Monday - Friday) at the University of Innsbruck<sup>1</sup>.

The exact time and location is in the following table:

Day	Lecture Time	Room [2nd week]	Mentoring	Room
Monday	12:00 - 14:45	SR 9 (SoWi)	17:00 - 18:00	'Besprechungsraum'
Tuesday	08:30 - 11:45	SR 4 (SoWi)	17:00 - 18:00	'Besprechungsraum'
Wednesday	08:30 - 11:45	SR 4 (SoWi)	17:00 - 18:00	'Besprechungsraum'
Thursday	08:30 - 11:45	SR 13 [18] (SoWi)	17:00 - 18:00	'Besprechungsraum'
Friday	08:30 - 11:45	SR 4 [1] (SoWi)	—	—

From Monday till Thursday the 'Besprechungsraum' of the Department of Public Finance (4th floor, SoWi) is from 16:00 till 18:00 o'clock available for you to do your assignments. During the second hour **Tanja Hörtnagl** will be present in the room and if necessary helps you with your assignments.

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<sup>1</sup>University of Innsbruck (SoWi), Universitaetsstr. 15, A-6020 Innsbruck

The underlying textbook is **W. H. Greene**, *Econometric Analysis*, 6th Edition, Prentice Hall, 2008. In the first week we will focus on the following chapters:

Day	Topic	References
Monday	Linear Regression I	Greene, ch. 2 - 8
Tuesday	Linear Regression II	
Wednesday	Panel Data I	Greene, ch. 9
Thursday	Panel Data II	
Friday	Systems of Regression Equations	Greene, ch. 10

The topics of the second week are:

Day	Topic	References
Monday	Time Series I	Greene, ch. 19 - 22
Tuesday	Time Series II	
Wednesday	Estimation Methodology I	Greene, ch. 15 - 16
Thursday	Estimation Methodology II	
Friday	Multivariate Models	Greene ch. 13

## 2 Workload and Grading

- After each lecture you will get small problems to solve and to hand them in till the evening of the same day. There will be a box in front of the office of Janette Walde (w3.30, 3rd floor West, SoWi). For this exercise **24%** can be achieved (12% each week, Monday till Thursday and each assignment is worth 3%).
- After the first week you will get an assignment worth **26%**. This is due for each student till **Friday, April 1, 12:00 PM** via email, at Monday you will indicate in the lecture which of the problems you solved and on **Wednesday, April 6, from 13:00 till 15:00** (UR 1, SoWi) students are picked randomly in order to demonstrate their solution at the blackboard and answer questions regarding the examples.
- The final exam has to be taken at your home university and it will be worth **50%** of the grade. The exam will last 90 minutes and will contain e.g. examples to compute, STATA outputs to discuss or model suggestions for applications. **In order to get a positive grade at least 50% of the points in the final exam must be achieved.**  
The final exam will be held on **Wednesday, May 11, 2011**. For the students of Innsbruck the location is the SR 4 (SoWi) from 9:00 till 10:45.

For the students of Linz the exam starts at 9:15 and ends at 11:00 in the room K224B.

Grading is as follows:

Result	Grade
< 55%	fail
55% – 65%	4
65% – 75%	3
75% – 85%	2
> 85%	1

### 3 Further Important Information

At the homepage of our course 'Econometrics' you will find all updates, news and downloadable materials e.g., slides or assignments.

With the account cb011075 you are able to work in our computer labs and use the available software. The password for this account will be given to you in the first lecture.

For problems discussed in the lecture the software STATA is used. If you want to do the assignments with a software package you are more familiar with, e.g. Eviews or R, feel free to do so. In the exam you just have to interpret STATA outputs but I am convinced that is no problem even if you work with a different software package usually.

### 4 Literature

The underlying textbook is W. H. Greene, *Econometric Analysis*, 6th Edition, Prentice Hall, 2008.

Further readings are:

*Econometric Analysis of Panel Data*, Badi H. Baltagi, Wiley, New York.

*Econometric Analysis of Cross Section and Panel Data*, Second Edition, Jeffrey M. Wooldridge, MIT Press

*Time Series Analysis*, James Hamilton-Paterson, Princeton University Press

*Econometric Theory and Methods*, James G. MacKinnon and Russell Davidson, Oxford Univ. Press

*Estimation and Inference in Econometrics*, Russell Davidson and James G. MacKinnon, Oxford Univ Press