

t.AST - Angewandte Statistik

Person responsible for the course: Marcel Dettling, dtli

Credits: 4

Valid for: 2010/2011

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Learning objectives:

The students are familiar with the basic concepts and the most important methods of statistical data analysis. They are capable of understanding a third person's analysis and can question their correctness and validity. Moreover, they are able to perform simpler data analysis tasks on their own by using statistical software tools (e.g. the freely available R/R-commander).

Course content:

- Descriptive statistics, visualization and data summaries
- Basics of probability calculus and models
- Random variables, distributions, expected value
- Parameter estimation, confidence intervals
- Statistical hypothesis testing
- Simple linear regression

Previous knowledge:

Basic knowledge in Mathematics

Teaching method:

Type of lesson:	Number of lessons per week:
Lecture	14*4 lessons
Tutorial/Practicum	included
Group teaching	
Block instruction	
Seminar	

Assessment:

According to the table or as specified in writing by the lecture at the beginning of the semester!

Number	Type	Weighting
1	End of term exam	80%
1	Exam during the semester	20%
	Further assessments	

Language of instruction:

German

Instruction material:

A scriptum and exercise material will be provided. Literature recommendations will be given in the course.

Comments:

Since the exercises need to be solved with statistical software tools (e.g. the freely available suite R/R-Commander, running on all platforms), we recommend to bring a notebook.