

Master of Economics

Lecture Title:	Statistics		
Lecturer:	Derya Uysal		
Lecture Code:	017 902	ECTS:	6
Term:	Fall Term 2015	Contact hours:	40
Lecture Dates:	Sept 24 th – Dec 10th , 2015		
Final Exam:	Dec 14 th , 2015	Frequency of lecture:	Twice a week
Prerequisites:			
Language of instruction:	English		
Contact information	Room 203 Telephone: +43 1 59991 156 Email: uysal@ihs.ac.at		
Office hours			
Course website	www.deryauysal.com		
Learning Objectives: (What are the intended learning outcomes? Which skills will be acquired?)	The course provides an introductory treatment of statistics including the relevant prerequisites of probability theory. The course takes an abstract, formal point of view and centers on the explanation of the underlying concepts behind statistical inference. At the end of the course the students understand the mechanisms underlying statistical inference. They are able to properly interpret the outcomes of a test. Moreover, the students possess the tools necessary in order to design and execute tests on their own scientific hypotheses. Additionally the level of the course is set such that the students acquire the relevant skills in order to be able to cope with scientific literature in the econometrics community. The course lays the foundations for the following courses within the program.		
Content: (Which professional competence and which contents will be imparted?)	The course covers the following topics: Probability theory Expectations Random Variables Convergence Concepts Estimation Theory Statistical Testing		
Teaching Approach: (Description of the learning and teaching methods)	The lecture mixes conventional blackboard and PowerPoint presentations in combination with practice sessions, where students get hands on experience.		

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Workload: (Definition of workload (ECTS), divided in pre-modules (e.g. pre-readings), core-modules (contact hours), post-modules (e.g. case studies)):	
Required literature: (scripts, books, articles, cases, papers)	Casella, G. and Berger, R.: 2002, <i>Statistical Inference</i> , 2nd edn, Duxbury
Recommended literature: (books, articles, cases, papers)	Other texts and support material will be introduced as needed.
Special features: (e.g. excursion, guest speaker):	
Mode of examination: (Mode of examinations and tests (e.g. oral or written examination, lecture, homework, papers, class participation)):	<ul style="list-style-type: none"> • Two written exams (midterm and final exam) • Practice sessions
Grading:	Class participation, Practice Sessions: (20 %) Midterm Exam: (40 %), Final written exam: (40 %) Others: (0 %)