

Valid from 2026.FS

Module description	n: Statistics				
Module Code	w.BA.XX.2Stat.XX				
ECTS Credits	6				
Language of Instruction/Examination	German				
Module Description	Students understand the fundamental concepts of descriptive and inferential statistics to summarize and analyze data and apply the methods in a practical business context.				
Organizational Unit	Institut für Wealth & Asset Management				
Module Coordinator	Thomas Gramespacher				
Deputy Module Coordinator	Armin Bänziger-Aiba				
Program and Specialization	 Business Administration - Specialization in Accounting, Controlling, Auditing Business Administration - Specialization in Banking and Finance Business Administration - Specialization in Behavioral Design Business Administration - Specialization in Economics and Politics Business Administration - Specialization in Financial Management Business Administration - Specialization in General Management Business Administration - Specialization in Human Centered Organisation Business Administration - Specialization in Insurance Management Business Administration - Specialization in Marketing Business Administration - Specialization in Risk and Insurance Business Administration - Specialization in Politics and Management 				
Legal Framework	Academic Regulations BSc dated 29.01.2009, for the degree programs in Business Administration, International Management, Business Information Technology, Business Law, Business Law and Applied Law, first adopted on 12.05.2009				
Module Category	Module Type Compulsory	Program Phase Main Study Period			
Prerequisite Knowledge	w.BA.XX.2Mathe1.XX, w.BA.XX.2Mathe2.XX				
Contribution to Program Learning Objectives (by the concerned Module)	 Professional Competence Methodological Competence Social Competence Self-Competence 				

Module description: Statistics					
Contribution to Program Learning Objectives	Professional Competence Knowing and Understanding Content of Theoretical and Practical Relevance Apply, Analyze, and Synthesize Content of Theoretical and Practical Relevance Evaluate Content of Theoretical and Practical Relevance Methodological Competence Problem-Solving & Critical Thinking Scientific Methodology Work Methods, Techniques, and Procedures Information Literacy Creativity & Innovation Social Competence Oral Communication Teamwork & Conflict Management Intercultural Insight & Ability to Change Perspective Self-Competence Self-Management & Self-Reflection Ethical & Social Responsibility Learning & Change				
Module Learning Objectives	Students understand the concept of numerical measures to describe data. explain central concepts of probability theory. understand the importance of confidence intervals and hypothesis testing. describe linear the relationship of two variables. represent data in appropriate charts. calculate key figures of empirical and theoretical distributions. determine probabilities of elementary random events. apply probability distributions on a case by case basis. construct confidence intervals for the population mean. test hypotheses concerning a population mean. analyze data using statistical analysis. evaluate hypotheses with sample data. interpret results of simple linear regressions. learn to use the statistical software gretl autonomously. solve the applied exercises of the textbook on their own.				
Module Content	 Processing and presenting data Statistical measured values: location and dispersion measures Probability calculation (incl. elementary combinatorial analysis) Discrete probability distributions (esp. binomial distribution) Continuous probability distributions (esp. uniform and normal distribution; normal approximation of discrete distributions) Distribution of random sample statistics Estimation procedures (point and interval estimation, esp. for mean values) Hypothesis tests (esp. with regard to the mean value of a population) Relationships between variables: cross tabulation and dispersion diagrams; covariance and correlation; linear regression models with an independent variable 				
Links to other modules	This module is linked to the following modules:				
Digital Learning Resources	 Practice and Application Exercises (with Key) Multiple Choice Tests 				
Methods of Instruction	LectureInteractive InstructionExercises	Social Settings Used: • Individual Work			

Module description: Statistics								
Type of Instruction		Classroom Instruction	Guided Self- Study	Autonom Study	Autonomous Self- Study			
	Large Class	28 h	-					
	Small Class	28 h	56 h					
	Group Instruction	-	-					
	Practical Work	-	-					
	Seminar	-	-					
	Total	56 h	56 h	68 h	68 h			
Performance Assessment	End-of-module	e exam	Form	Length (min.)	Weighting			
	Written exam	Written exam		60 100.00				
	Permitted Resources		Spec. calculator acc. to leaflet "Utilities"	With dictionary				
	Others	Assessment	Format	Length (min.)	Weighting			
	-	-	-	-	-			
Classroom Attendance Requirement	None							
Compulsory Reading	Bachmann, O., Bänziger, A., Gramespacher, T., Hilber, N. & Rentzmann, S. (2014). Übungsband zur angewandten Statistik: Mit einer Einführung in die Ökonometrie-Software gretl. 2. korrigierte edition. Zürich: Compendio. ISBN 978-3-7155-9924-3.							
Recommended Reading	Carlson, W. & Thome, B. & Newbold, P. (2023). Statistics for Business and Economics (Global Edition). 10 Edition. Upper Saddle River, N.J.: Pearson Prentice Hall. ISBN 978-1292436845.							
Comments								