LS110 Business Mathematics	
• Fundamentals of financial mathematics, e.g., calculation of future value and present value of capital, • Use of IT, in particular spreadsheets, to solve problems, • Curve sketching and differential calculus of real functions in one and several variables (with or without constraints), • Determination of extrema, nonlinear optimization in one and several variables, • Elasticity and its application in revenue optimization, • Integral calculus in one variable, • Systems of linear equations and Gaussian elimination, • Business applications of systems of linear equations, • Vector spaces and matrices, multiplication and invertibility of matrices, • Input-output analysis / Leontief method.	
Assessment: written exam	
Lecturer: Prof. Dr. Pohl	**ECTS: 5**