

Mathematics for Economists

332110001/MA ECON BM MATH



Content and learning outcomes

Content	The course covers optimization methods as they are used in economic research. Both static and dynamic methods are treated. Existence and comparative statics properties of solutions are covered. Difference and differential equations are discussed, as mastering these techniques is essential for macroeconomic applications in particular but not exclusively. Basic concepts in linear Algebra are discussed with a view to their applications in other basic and advanced modules.
Learning outcomes	Students become familiar with the use of mathematics to study economic problems. The course aims to equip students with the necessary technical toolkit to read economic research independently.

Teaching and learning methods

Type of course/learning methods	Topic	Language of instruction	Group size	Contact time	Workload [h]
Lecture	Mathematics for Economists	English	open	4 hours	60
Self-study					165

Prerequisites

obligatory

recommended

Degree program allocation

Study Program	obligatory/ elective	Semester
Master of Science Economics	obligatory	1st

Requirements for the awarding of credit points (ECTS)

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Prerequisites for participation	None	7,5 CP
Types of Assessment (graded, incl. weighting factor)	Written exam (graded, 100%) - English	
Examination language		

Course Cycle

Winter term

Summer term

Winter and

Summer term

Workload

225 h

Duration

1 Term

Module coordination

Teaching person

See <https://basis.uni-bonn.de>

Module coordinator

Prof. Dr. Dezső Szalay

Institute/Department

Department of Economics

Further Information

(Reading lists,
information links etc.)