

## Syllabus Course description

Course title	Preparatory course in Mathematics – Mathematics for Economists TSE
Course code	30152
Scientific sector	SECS-S/06
Degree	Tourism, Sport and Event Management
Semester and academic year	25.09 – 29.09.2023
Year	1 <sup>st</sup> year
Credits	-
Modular	No

Total lecturing hours	20
Total lab hours	-
Total exercise hours	-
Attendance	recommended, but not required
Prerequisites	not required
Course page	https://www.unibz.it/en/faculties/economics-
	management/bachelor-tourism-sport-event-
	management/course-offering/?academicYear=2023

<ul><li>has two broad objectives:</li><li>1) Refresh mathematical knowledge</li><li>2) Prepare for the course "Mathematics for Economists"</li></ul>
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Lecturer	Dr. Benjamin Weißing E-mail: <u>Benjamin.Weissing@unibz.it</u> Campus Bruneck- Brunico, 1 <sup>st</sup> Floor, Room 1.11; <u>https://www.unibz.it/it/faculties/economics-</u> <u>management/academic-staff/person/35796-benjamin-</u> weissing
Scientific sector of the lecturer	SECS-S/06
Teaching language	English
Office hours	https://www.unibz.it/en/timetable/?department=26&degre e=13009%2C13134
Lecturing assistant	-
Teaching assistant	-
List of topics covered	<ul> <li>Sets &amp; Operations on Sets</li> <li>Functions</li> <li>Numbers         <ul> <li>Natural numbers</li> <li>Real number</li> </ul> </li> </ul>

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Learning outcomes	Knowledge and understanding:
	Basic mathematical knowledge will be revisited and consolidated, familiarity with elementary solution
	procedures (e.g., for quadratic equations or defining an
	equation for a straight line) will be generated.
	Applying knowledge and understanding:
	With elementary examples from economic theory, a basic
	understanding for the necessity of mathematical modeling in economics is aimed for.
	Making judgments: The ability to make fundamental distinctions in
	Mathematics (linear vs. nonlinear, first order vs. higher
	order etc.) is aimed for. Moreover, a first intuition for quantitative vs. qualitative models should be provided.
	Communication skills: Basic abilities to apply a mathematical language in an
	economical framework will be aimed for. The students will
	be challenged to discuss with the professor and among each other about mathematical constructions.
	Learning skills:
	Prepares for the course "Mathematics for Economists" requiring a solid understanding of mathematical concepts.

Assessment	Informal assessment: tests at the beginning and at the end of the course
Assessment language	English
Evaluation criteria and criteria for awarding marks	No marks/grades.

Required readings	No required reading.
Supplementary readings	Will be announced at the beginning of the course.