

# Probability Theory

MA ECON AM ECS PROBTHEO



## Content and learning outcome

<b>Content</b>	The course introduces to the mathematical theory of probability such as integration, probability measures, random variables, expectations, concepts of convergence and limit theorems.
<b>Learning outcome</b>	Students get acquainted with modern concepts and tools of probability. They obtain a rigorous basis for understanding and applying current research in statistics and probability theory.

## Teaching and learning methods

Type of course/ learning methods	Topic	Language of instruction	Group size	Contact time	Workload [h]
Lecture	Probability Theory	English	30	4 hours	60
Self-study					165

## Prerequisites

<b>obligatory</b>	none
<b>recommended</b>	Basic Module <i>Econometrics</i>

## Degree program allocation

Study Program/Study Field/Module Number/Lecture Number	obligatory/ elective	Semester
Economics (M.Sc.)/ Econometrics and Statistics/332125032/332025032	elective	2 <sup>nd</sup>

## Requirements for the awarding of credit points (ECTS)

Requirements for the awarding of credit points (ECTS)		Credits
<b>Prerequisites for participation</b>	none	7,5 CP
<b>Types of Assessment</b>	Written or oral exam or term paper (graded, 100%)	
<b>Examination language</b>	English	

Course Cycle	Workload	Duration
Winter term <input type="checkbox"/> Summer term <input checked="" type="checkbox"/>	Winter and Summer term <input type="checkbox"/>	225 h
		1 Term

## Module coordination

<b>Teaching person</b>	See <a href="https://basis.uni-bonn.de">https://basis.uni-bonn.de</a>
<b>Module coordinator</b>	Prof. Dr. Alois Kneip
<b>Institute/Department</b>	Department of Economics

## Further Information