

# Modulbeschreibung für Vertiefungsmodule des Wahlpflichtbereiches

<b>Titel des Moduls</b>	Mathematische Wirtschaftstheorie
In englischer Sprache	Mathematical Business Theory

<b>Reine Mathematik</b>	
<b>Angewandte Mathem.</b>	X

	Vorlesung	Übung
<b>Umfang</b>	2 SWS	

<b>Inhalt</b>	
<p>The main objective of this course is to study the theory of existence and optimality of Competitive Equilibria. We will initially devote some time to the so-called Arrow-Debreu model, where only finitely many commodities are exchanged. We will then provide an introduction to the theory of Riesz spaces and Banach Lattices, which is required to tackle the existence question in infinite dimensions. We will then move to the main body of the course, where we will study pure exchange and production economies in a setting where infinitely many commodities are traded. This will be based on the works of Aliprantis, Brown, Burkinshaw, Mas Colell and Zame, among others. Finally we will study an overlapping generations model, time permitting.</p>	

<b>Voraussetzungen</b>	Analysis I, II, IIIa,b, Stochastik I; Empfohlen Reelle Analysis und Stochastik II
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<b>Regelsemester</b>	6. Fachsemester
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<b>Abschluss</b>	Leistungsschein oder Prüfung
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<b>Prüfungszulassungsvoraussetzung</b>	Keine
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<b>Studienpunkte</b>	4 bei Abschluss mit Prüfung
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R = Reine Mathematik  
A = Angewandte Mathematik