

PhD Course Decision Theory

	Block course:			
	Tuesday, June 3, 20	025; 9 a.m. – 4 p.m.;	room 0005.1., Moorweidenstraße 18	
	Wednesday, June 4	4, 2025; 9 a.m. – 4 p.m.;	1.) room 0005.1., Moorweidenstraße 18,	
			2.) room 4030/4031, Esplanade 36	
_	Thursday, June 5, 2	2025; 9 a.m. – 4 p.m.;	room 0005,1, Moorweidenstraße 18	
	Friday, June 6, 202	5; 9 a.m. – 1 p.m.;	room 0029, Moorweidenstraße 18	
	Lecturers: Prof. Dr. Richard Peter (E		-mail: <u>richard-peter@uiowa.edu</u>)	
	Prof. Dr. Petra Steinorth		(E-Mail: petra.steinorth@uni-hamburg.de)	
	Course Value:	5 credit points (2 SWS)		
	Assessment:	Research presentation; g	grading will be pass/fail.	
	Course language:	English		
	0.0	0		
	Registration:	Please register via STiNE	•	
	0	Registration deadline is 2		
		0	atters please contact andrea.buekow@uni-hamburg.de.	
		-	n order of received registrations.	
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Course Objectives:

- To recognize, explain and discuss theories of normative and descriptive decision-making under risk and uncertainty
- To apply theories of decision-making under risk and uncertainty in the health domain in the context of medical decision-making and health care supply decisions
- To explain, analyze and develop research hypotheses rooted in normative or descriptive theories of decision-making under risk and uncertainty

Prerequisites/Literature: To be distributed

Course description:

Normative and descriptive decision theories aim at predicting and/or understanding decision making in different context and also apply to medical decision making. The aim of this course is to give students the foundation of the most commonly utilized and their applications to medical decision making.

PhD students can either present how their own research project roots in normative and descriptive decision theory or present a seminal paper from the course list on medical decision making.

The course is designed for PhD students of the Research Training Group 'Managerial and economic dimensions of health care quality' but is open to a wider range of students.

Tuesday, June 3	Normative decision theory:	Richard Peter
9 a.m. – 4 p.m.	 Expected utility Irreplaceable commodities Value of a statistical life (VSL) Prevention and precaution 	
Wednesday, June	Descriptive theories of decision making:	Petra
4	Rank-dependent utility	Steinorth
9 a.m. – 4 p.m.	Prospect theory	
	Cumulative prospect theory	
	Thinking fast and thinking slow	
	 Behavioral biases with applications to medical decision making 	
Thursday, June 5	Assignment: Prepare your presentation	All
9 a.m. – 4 p.m.		
Friday, June 6	Presentations and discussion	All
9 a.m. – 1 p.m.		

Course schedule: