

MASTER OF SCIENCE IN WEALTH MANAGEMENT

MAÎTRISE UNIVERSITAIRE EN GESTION DE PATRIMOINE

INTRODUCTION TO NEUROECONOMICS & NEUROFINANCE (S403052)

Prof. Kirsten PREUSCHOFF

3 ECTS

Semester: Autumn/Spring

Teaching language: English

Neuroeconomics is an emerging field that takes an interdisciplinary approach to studying decision making by integrating research questions and methods from many different disciplines such as neuroscience, economics, finance, psychology, affective sciences, and computational neuroscience.

The first part of the course looks at core concepts that guide neuroeconomic research. The concepts will be taught using early research in the field.

The second part of the course discusses the main areas of research in the field using recent research. Topics include the neurobiology of reward, dopamine and reinforcement learning; the economics and neural basis of valuation; choice processes: perceptual decision-making and value-based decision making; computational models of neural networks of decision making; the role of emotions; social decision making and others.

The final part takes a critical stance toward the field. We will discuss what Neuroeconomics can contribute to advancing other disciplines such as neuroscience, psychology and economics. This part will also look at open questions in the field and what it can and cannot contribute to our understanding of real-life decision making.

Taking “Interdisciplinary Methods and Models in Neuroeconomics”, also offered in the spring, will be helpful but is not absolutely necessary.