Foundations of Economics

Root Number: 441667 – HS2025

Semester: Fall semester - HS 2025

ECTS: 8 ECTS

Lecturers: David Baumann (Mathematics & Statistics), Kirti Jhunjhunwala (Microeconomics)
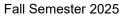& Octavio Fernández-Amador (Macroeconomics)

Dates: Please see details on pages 10 - 12

Audience:

- Master of Advanced Studies of International Law and Economics (MILE) Students – Compulsory
- Joint LL.M. / Diploma of Advanced Studies Trade and Investment Law (TRAIL+) Students - World Trade Institute / Faculty of Law, Unibe - Compulsory
- This course is not open to MILE a la Carte

CONTENTS

COURSE DESCRIPTION

This is an introductory course to Microeconomics and Macroeconomics for International Economics. Before the beginning of the course there will be an introductory module on Mathematics and Statistics. Students will gain a basic understanding of the most important economic theories on microeconomics, specifically the basic concepts of demand and supply, consumer- and producer theory, and market structures. Students will also be introduced to the foundations of macroeconomic analysis, in particular to concepts like the goods and financial markets, the functioning of macroeconomic policies, balance of payments and the exchange rates.

Detailed description by subject

Math and Statistics

The module revises topics on mathematics and descriptive statistics that are relevant to understand the economic analysis studied in the modules of the Master of International Law and Economics with focus on economic topics.

Microeconomics

The goal of the module is to gain a basic understanding of the most important economic theories on micro-economics. This will provide students with a foundation of microeconomic concepts and will enable them to understand the basic economics also relied on in the international trade literature. For this, some introductory topics in economics will be discussed such as demand and supply, consumer theory, and market structures. After the course, students should be able to explain the main concepts and theories on microeconomics and be able to follow the course on international trade.

The course comprises 10 lectures of 2 hours each (20 hours in total) plus 2 hours for the final exam. The module is structured as follows: The first session will be devoted to a short revision of the basics of supply and demand. The second session will focus on studying consumer behavior. The third to the fifth session will cover individual and market demand and production. In sessions six and seven the discussion will focus on the cost of production and the profit maximizing behavior of firms. In session eight all the concepts discussed so far will be applied to do an analysis of competitive markets. Session nine and ten will be devoted to discuss the concept of market power, with a special focus on monopolistic competitive markets.

The main reference is the textbook by Pindyck and Rubinfeld on Microeconomics. Students are expected to work through the book chapters indicated in this syllabus before class in order to facilitate their comprehension of the material to be discussed. In class, the material is discussed together thoroughly.

Macroeconomics

This module presents the core field of macroeconomics and international macroeconomics. Students will be introduced to the foundations of macroeconomics. They will learn the functioning of goods, financial and labour markets; the basic analysis of monetary and fiscal policies; as well as concepts like the balance of payments, the exchange rate, currency markets, international capital mobility, purchasing power parity, and interest rate parity. This will enable the students to better understand and interpret recent macroeconomic developments and the implications for government policies and markets. We shall address the economic policy options available to governments in the present context of economic globalization.

The main reference is the textbook by Blanchard (BLA, hereafter). We will supplement the textbook with readings from other sources such as academic journals, institutional reports, outlooks, and specialized news.

The course is organised to provide the theoretical underpinnings and some recent examples during the lectures. It is required from the students to read the main readings for each lecture to facilitate their understanding of the material to be discussed. In class, the material is discussed together thoroughly. It is expected from students their participation in class and their preparation of the material and exercises required.

RECORDING OF CLASS

Audio recordings of the lectures will be available. Those recordings may solely be used by students for the purpose of their studies and may not be shared.

LECTURERS

David Baumann

David is a PhD candidate in economics at the World Trade Institute (WTI). His research addresses the nexus between international trade and climate change, with a special focus on emissions pricing regimes, the theory and empirics of trade wars, and the impacts of natural disasters and extreme weather events on trade flows and global value chains. David holds an MSc in Applied Economic Analysis with a special qualification in Trade and International Development from the University of Bern. Prior to joining the WTI, David worked as a research assistant for a large longitudinal social structure study, as an assistant in energy and climate economics at an economics consultancy working for the Swiss government, and as an academic intern in the section for market regulation at the Swiss Federal Office of Energy. He is passionate about international trade, climate and energy economics, political economy, as well as data analytics and visualization.

Kirti Jhunjhunwala

Kirti Jhunjhunwala, is a PhD candidate at the World Trade Institute. She is working on an SNF project with Joseph Francois on the impact of uncertainties in global value chains on services trade. Prior to this, she was working with the World Trade Organisation`s Economic Research and Statistics Division. She worked with their quantitative modelling team to develop and analyse results from the WTO`S Global Trade model in the domain of climate change, gender and subsidies. She has completed her Masters in International Economics from IHEID, Geneva. She also holds a Masters in Business Administration degree from India and has worked as a consultant with the Boston Consulting Group. She is interested in international trade, behavioural economics and climate change. She is also passionate about learning and discovering new fields and bringing them together to make her research more holistic.

Octavio Fernández-Amador

Octavio Fernández-Amador is a senior researcher at World Trade Institute. He achieved his Habilitation from the University of Bern (Switzerland) and holds a PhD in Economics from the University of Innsbruck (Austria) and a degree in Economics from University of Sevilla (Spain). He has previously worked as a Postdoc Assistant Professor at Johannes Kepler University Linz (Austria). Octavio has collaborated in projects with different institutions. His field of research is applied econometrics and macro-econometrics. He has worked on international macroeconomics, trade, monetary economics, applied econometrics, time series analysis, and the quantitative analysis of climate change. Octavio has published in various international scientific journals.

LEARNING OBJECTIVES

Math and Statistics

- Revising basic mathematical and statistical concepts;
- Understanding the use of those concepts in economics.

Microeconomics

- Understanding the basics of micro-economics as a foundation to economics;
- Understanding how, given technology, a firm minimizes its costs
- Learning how profit maximizing firms act on competitive and non-competitive markets

Macroeconomics

- Understanding the most important concepts and tools for analysis of macroeconomics and international macroeconomics
- Being able to better understand and interpret recent macroeconomic developments in an international context
- Addressing the economic policies available to governments in the present era of economic globalization

RECOMMENDED LITERATURE

- Rosser, M. and P. Lis (2016): Basic Mathematics for Economists. 3rd edition. Routledge.
- Triola, M.F. Essentials of Statistics. 6th edition. Pearson.
- Pindyck, R., Rubinfeld, D. (2018): Microeconomics. 9th edition. Pearson.
- Blanchard (2017): Macroeconomics. 7th Global edition, Boston: Pearson Education.

Note: We will deliver additional readings in advance to help understand basic concepts related to the lectures and to supplement the compulsory readings either during the class or for the exercises proposed. The readings delivered will be considered part of the material to prepare the exam, unless the instructor excludes them from being part of the content of the exam.

EXAMS AND GRADES

Important: A positive evaluation of each of the THREE modules of Foundations of Economics is necessary to complete the whole course with a positive grade!

Math and Statistics

- The grade will be based on an exam (no open book)
- The grade on Math and Statistics counts for 10% of the final course grade

Microeconomics

- The grade will be based on an exam (no open book)
- The grade on Microeconomics counts for 45% of the final course grade

Macroeconomics

- The grade will be based on an exam (no open book)
- The grade on Macroeconomics counts for 45% of the final course grade

COURSE OVERVIEW

Lesson	Date	Weekday	Subject	Hours	Time	Lecturer	Topic	Reading
	09.19.25	Fri	Maths and Statistics	1	8:30-9:30	D. Baumann	Placement exam discussion	
1.S1	09.19.25	Fri	Maths and Statistics	3	09.30-12.30	D. Baumann	Elementary Algebra, Functions, Equations, Growth Rates,	Rosser, M. "Basic Mathematics for Economists"
2.S2	09.25.25	Thu	Maths and Statistics	3	13:30-16:30	D. Baumann	Differential Calculus; Statistics terminology, Frequency distributions,	Rosser, M. "Basic Mathematics for Economists" Triola, M.F. "Essentials of Statistcs"
3.S3 4.S4	09.26.25	Fri	Maths and Statistics	3	9:30-12:30	D. Baumann	Measures of Central Tendency and Location, Measures of dispersion and dependence, Index numbers Exercises	Triola, M.F. "Essentials of Statistcs"
SE	09.30.25	Tue	Maths and Statistics Exam	2	14:00-16:00	D. Baumann	Exam	
5.Mi1	10.02.25	Thu	Microeconomics	2	13:30-15:30	K. Jhunjhunwala	Very short revision: Supply and Demand; Consumer Behavior	Pindyck and Rubinfeld, Ch. 1-2
6.Mi2	10.03.25	Fri	Microeconomics	2	10:30-12:30	K. Jhunjhunwala		Pindyck and Rubinfeld, Ch. 3
7.Mi3	10.09.25	Thu	Microeconomics	2	13:30-15:30	K. Jhunjhunwala	Individual and Market Demand	Pindyck and Rubinfeld, Ch. 4
8.Mi4	10.10.25	Fri	Microeconomics	2	10:30-12:30	K. Jhunjhunwala	Production	Pindyck and Rubinfeld, Ch. 4 and 6

9.Mi5	10.16.25	Thu	Microeconomics	2	13:30-15:30	K. Jhunjhunwala	Cost of Production	Pindyck and Rubinfeld, Ch. 6
10.Mi6	10.17.25	Fri	Microeconomics	2	10:30-12:30	K. Jhunjhunwala	Competitive markets	Pindyck and Rubinfeld, Ch. 7
11.Mi7	10.23.25	Thu	Microeconomics	2	13:30-15:30	K. Jhunjhunwala	Cost of Production	Pindyck/ Rubinfeld, Ch. 8
12.Mi8	10.24.25	Fri	Microeconomics	2	10:30-12:30	K. Jhunjhunwala	Profit maximization	Pindyck and Rubinfeld, Ch. 9.1.-9.4. + 9.6
13.Mi9	10.30.25	Thu	Microeconomics	2	13:30-15:30		Competitive markets	Pindyck and Rubinfeld, Ch. 10.1-10.4
14.Mi10	10.31.25	Fri	Microeconomics	2	10:30-12:30	K. Jhunjhunwala	Market power and monopolistic competition	Pindyck and Rubinfeld, Ch. 12.1
MIE	11.06.25	Thu	Microeconomics Exam	2	13:30-15:30		Exam	
15.Ma1	11.07.25	Fri	Macroeconomics	2	10:30 – 12:30	O. Fernández-Amador	The short run (I): The goods market	BLA 3
16.Ma2	11.13.25	Thu	Macroeconomics	2	13:30 – 15:30	O. Fernández-Amador	The short run (II): Financial markets	BLA 4
17.Ma3	11.14.25	Fri	Macroeconomics	2	10:30 – 12:30	O. Fernández-Amador	The short run (III): Goods and financial markets: The IS-LM model	BLA 5
18.Ma4	11.20.25	Thu	Macroeconomics	2	13:30 – 15:30	O. Fernández-Amador	The short run (IV): The extended IS-LM model: financial markets revisited	BLA 6
19.Ma5	11.21.25	Fri	Macroeconomics	2	10:30 – 12:30	O. Fernández-Amador	The medium run (I): The labor market	BLA 7
20.Ma6	11.27.25	Thu	Macroeconomics	2	13:30 – 15:30	O. Fernández-Amador	The medium run (II): The Phillips curve	BLA 8

21.Ma 7	11.28.25	Fri	Macroeconomics	2	10:30 – 12:30	O. Fernández-Amador	The medium run (III) The IS-LM-PC model	BLA 9
22.Ma 8	12.04.25	Thu	Macroeconomics	2	13:30 – 15:30	O. Fernández-Amador	The open economy (I): Openness in goods and financial markets	BLA 17
23.Ma 9	12.05.25	Fri	Macroeconomics	2	10:30 – 12:30	O. Fernández-Amador	The open economy (II): The goods market	BLA 18
24.Ma 10	12.11.25	Thu	Macroeconomics	2	13:30 – 15:30	O. Fernández-Amador	The open economy (III):The Mundell-Fleming model	BLA 19
MAE	12.15.25	Mon	Macroeconomics Exam	2	09:30-11:30	O. Fernández-Amador	Exam	