



# **Advanced Macroeconomic Analysis I (AMA)**

Winter Term 2020/2021

**Prof. Lutz Weinke, Ph. D.**

Institute of Economic Policy  
Humboldt-Universität zu Berlin  
Spandauer Straße 1  
10178 Berlin

November 2nd 2020

## 1 Schedule

Lecture and Tutorial (VL/UE)	Wed	08:30–12:00	Zoom
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## 2 Lecturer

	Office Hours	Room	E-Mail
Prof. Lutz Weinke (VL/UE)	Mon 14:00–15:00, registration at: <a href="mailto:wpol@wiwi.hu-berlin.de">wpol@wiwi.hu-berlin.de</a>	331	<a href="mailto:lutz.weinke@wiwi.hu-berlin.de">lutz.weinke@wiwi.hu-berlin.de</a>

## 3 Content and structure of the course

The objective of this course is to teach M.A. and Ph.D. students to use macroeconomic concepts and techniques for their own research.

The focus of the course lies on dynamic stochastic general equilibrium (DSGE) models used for positive and normative macroeconomic analysis. Throughout the course, special emphasis will be put on the fact that theory can be used as a lens to analyze data. To this end a number of theoretical and empirical concepts are presented: The computation of impulse response functions, structural vector autoregressions, as well as structural estimation. The course concludes with an introduction to Ramsey optimal policy.

There will be a 90-minute final exam which covers both parts of the course (i.e., Prof. Burda's part and Prof. Weinke's part) equally. The exam will be held **online**.

## 4 Literature

Galí, Jordi (2003): *New Perspectives on Monetary Policy, Inflation, and the Business Cycle*, *Advances in Economic Theory*, edited by: M. Dewatripont, L. Hansen, and S. Turnovsky, Vol. III, 151-197, Cambridge University Press.

Galí, Jordi; Rabanal, Pau (2004): *Technology Shocks and Aggregate Fluctuations: How Well Does the RBC Model Fit Postwar U.S. Data?*, *NBER Macroeconomics Annual* 19, 225-288.

Schmitt-Grohé, Stephanie; Uribe, Martín (2010): *Evaluating the Sample Likelihood of Linearized DSGE Models without the Use of the Kalman Filter*, *Economics Letters*, Vol. 109(3), 142-143.

Schmitt-Grohé, Stephanie; Uribe, Martín (2012): *An OLS Approach to Computing Ramsey Equilibria in Medium-Scale Macroeconomic Models*, *Economics Letters*, Vol. 115(1), 128-129.

## 5 Additional Readings

Excellent textbook treatments of the concepts and techniques presented in this course exist.

With a focus on monetary economics:

Galí, Jordi (2015): *Monetary Policy, Inflation and the Business Cycle*, Second Edition, Princeton University Press.

With a focus on open economy macro:

Uribe, Martín; Schmitt-Grohé, Stephanie (2017): *Open economy macroeconomics*, Princeton University Press.

## 6 Overview of the Course

	<b>Date</b>	<b>Topic of the Lecture</b>
1	13.01.	Elements of Equilibrium Literature: Galí (2003) & Galí (2015), Ch.2
2	20.01.	Prices and Marginal Costs Literature: Galí (2003) & Galí (2015), Ch.2
3	27.01.	Transmission of Economic Shocks Literature: Galí (2003) & Galí (2015), Ch.3
4	03.02.	Dynamic Consequences of Technology Shocks and Possible Pitfalls in their Estimation I Literature: Galí and Rabanal (2004)
5	10.02.	Dynamic Consequences of Technology Shocks and Possible Pitfalls in their Estimation II Literature: Galí and Rabanal (2004)
6	17.02.	Structural Estimation Literature: Galí and Rabanal (2004) & Schmitt-Grohé and Uribe (2010)
7	24.02.	Ramsey Optimal Policy & Outlook, Revision and Questions Literature: Schmitt-Grohé and Uribe (2012)