



GUTENBERG SCHOOL OF
MANAGEMENT
& ECONOMICS



Johannes-Gutenberg Universität Mainz
Master in International Economics and Public Policy

Advanced Macroeconomics

Winter term 2015/ 16

Syllabus

Lecturer: Marten Hillebrand

Teaching assistant: Jean Roch Donsimoni

October 27, 2015

Organization

- Course website: <http://www.macro.economics.uni-mainz.de/1181.php>
- Tutorials:
 - Thursdays from 12:15-13:45 in RW 2 starting **November 12**
 - Jean Roch Donsimoni will be the TA
- Problem sets:
 - to be prepared at home
 - discussion in the tutorial
- Final module exam:
 - takes place on February 16, 2016 from 16:00 - 18:00
 - also covering 'Principles of Public Economics'
- Questions:
 - concerning lecture: mhillebr@uni-mainz.de
 - concerning problem sets: jdonsimo@uni-mainz.de

Course Overview

Part I: Economic Growth

1. Facts about economic growth
2. The Solow growth model
3. The OLG growth model
4. The neoclassical growth model

Part II: Business Cycles

1. Facts about business cycles
2. A stochastic Solow model
3. Real business cycle models
4. Monetary business cycle models

Part III: Selected Topics (incomplete)

1. Growth models with climate change
2. Search & matching models of the labor market

Objectives

- General objectives:
 - provide an overview of *modern macroeconomics* together with...
 - *mathematical tools and methods* required to...
 - understand the relevant *literature*
- *Quantitative style*, focus on selected models representative for entire field
- *Problem sets* to illustrate and amplify results presented in class
- Whet your appetite for further *specialization* (on a particular topic)

Textbooks

- On economic growth:
 - Acemoglu (2009): *Introduction to Modern Economic Growth*
 - de la Croix & Michel (1998): *A Theory of Economic Growth*
- On business cycles:
 - McCandless (2008): *The ABCs of RBCs*
 - Gali (2008): *Monetary Policy, Inflation, and the Business Cycle*
- On mathematical methods:
 - Galor (2007): *Discrete Dynamical Systems*
 - Stachurski (2009): *Economic Dynamics*
 - Waelde (2012): *Applied Intertemporal Optimization*
- Additional references will be announced as we progress!