



Göttingen, April 4, 2016

Master Course: **Advanced Economic Growth**, Spring 2016

Contact Information

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Office hours are upon appointment. Please register after the lecture/ the tutorial or via email.

Time and Venue

Lecture: Tuesday, 14:00-16:00, room VG 1.106
Tutorial: Wednesday, 10:00-12:00, room T0.136

The lecture starts on April, 12, whereas the tutorial starts on April, 13.

Course description

In this course we will study long-run trends in economic development. We will analyze questions such as

- Why are some countries richer than others?
- Why do some countries grow more rapidly than others?
- What are the engines of economic growth?
- What are the mechanisms that lead to sustained economic growth?

In particular, the students should learn about the engines of modern economic growth, like capital accumulation, human capital and technology.

Basic requirements

Macroeconomics, Mathematics for Economists, Economic Growth and Econometrics as covered in the B.Sc. courses.

Grading

Oral exam of 20 minutes or written exam of 90 minutes (depending on the number of participants).

Contents

- 1) Introduction
- 2) Refreshing the Solow growth model and the Diamond-OLG model
- 3) Neoclassical Growth (Ramsey-Cass-Koopmans model)
- 4) Overlapping Generations in Continuous Time
- 5) Human Capital and Economic Growth
- 6) Endogenous Growth with Expanding Varieties
- 7) The Scale Effect and Semi-endogenous Growth
- 8) Creative Destruction
- 9) Technology Diffusion
- 10) Economic Growth in the Very Long Run

Literature

The course is based upon selected research articles and book chapters, which will be provided during the lecture. Covered books include

- Acemoglu, D., *Introduction to Modern Economic Growth*, Princeton University Press, 2009.
- Barro, R.J. and Sala-i-Martin, X., *Economic Growth*, MIT Press, 2004.
- Aghion, P. and Howitt, P., *The Economics of Growth*, MIT Press, 2009.
- Heijdra, B. and van der Ploeg, F., *Foundations of Modern Macroeconomics*, Oxford University Press, 2009.
- Galor, O., *Unified Growth Theory*, Princeton University Press, 2011.