

## **ECON 4020 Advanced Macroeconomics**

2<sup>nd</sup> Semester 2018 - 2019

Class Schedule:    Tue        10:30 a.m. – 12:15 p.m.        ELB 308 (Jan 8 – Apr 16)  
                          Thu        1:30 p.m. – 2:15 p.m.        ELB 303 (Jan 10 – Apr 18)

Reading Week (no classes):    April 1 (Mon) – April 6 (Sat)

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TA:    Mr. Hu Hao, HaoHu@link.cuhk.edu.hk

### Objective:

The emphasis of this course is on the modern analysis of economic growth. New development on the theories of growth and development are studied. It also provides an introduction to different models of endogenous growth and technological change. Topics may include: dynamic macro models of finite and infinite horizon, search and growth, models of endogenous technological change, growth and indeterminacy, models of structural change, unified growth models, etc. This course strikes a balance between theoretical developments and empirical studies in modern dynamic macroeconomics. In addition, calibration techniques will be introduced for learning the quantitative analysis used in research papers.

### Learning Outcome:

Based on different dynamic macroeconomic models, we try to understand the driving forces behind the growth process of an economy, and the related policy implications.

### Basic Readings:

1. Philippe Aghion and Peter Howitt, *The Economics of Growth*, The MIT Press, 2009.
2. Acemoglu, D., *Introduction to Modern Economic Growth*, the Princeton University Press, 2009.
3. Caselli, Francesco, *Accounting for Income Differences across Countries*, in *Handbook of Economic Growth*, Vol. 1A, P. Aghion and S. Durlauf, eds. (Amsterdam: Elsevier, 2005, Chap. 9).

### Evaluation:

Midterm (March 5, in class)	50%
Final Exam (to be centrally planned)	50%
Problem Sets (for your practice; to be discussed in classes and tutorials)	

### Course Outline:

1. Introduction/Basic Techniques
2. Growth and Development (Level) Accounting
3. Basic Growth Models of Factor Accumulation
4. Basic Models of Technological Change
5. Dynamic Macroeconomic Models of Finite Life
6. Special Topics (if time constraint is not binding): Indeterminacy and Economic Growth, Stage of Growth and Structural Change, Technology and Growth.