Overview: This is the first course in the macroeconomics sequence designed for Ph.D. students. It covers the basics of long-run macroeconomic analysis.

We will cover (time permitting) the following topics in the course:

1. Neoclassical Growth Model
2. Dynamic Programming
   - Sequential Methods
   - Finite Horizon Dynamic Programming
   - Infinite Horizon Dynamic Programming
   - Application: Search Theory
3. Optimal Growth
   - Basic Optimal Growth Model
   - Generalized Model
   - Recursive Competitive Equilibria
   - Equilibria in Economies with Distortions
   - Endogenous Technical Change
4. Overlapping Generations
   - Basic OLG Model
   - Monetary Equilibria
   - Dynamics
   - Fiscal Policy
5. Job Search – DMP Model

Grading: There will be two exams (in class). The first will be Monday, October 20, and the second will be Wednesday December 10th. Homework will be assigned periodically. Each exam will be worth 40% of your grade. The remaining 20% will be based on homework. I encourage students to work in small groups of two or three people. Each individual must hand in their own homework for credit noting their study partners.
I have put together a series of comprehensive lecture notes which will be made available on my website as the course progresses.

https://sites.google.com/site/georgealessandria2/home/teaching

If you want to look at a textbook, some useful references are


Some additional references:


Growth:


Overlapping Generations:


Sargent Chapter 7.

McCandless and Wallace.

Job Search:
Sargent Chapter 2.

Davis and Haltiwanger.


Pissarides