Overview: This is a graduate course in the first-year macroeconomics field. I will cover some basic aggregate dynamic frameworks with their applications. In particular, I will focus on deterministic and stochastic Dynamic Programming, Search models, Business Cycle models, Overlapping Generations models and models of Firm Dynamics and their aggregation.

Organization: The class meets on Mondays and Wednesdays from 9:00am to 10:30pm in JRRB 198. All class materials will be posted on the class website in Blackboard. My office hours are on Thursdays from 3:00pm to 4:15pm.

Precepts: There will be weekly precepts on Tuesday's from 1:00pm to 2:30pm. The preceptor is Joseph A. Abadi (jaabadi@exchange.princeton.edu). The final exam will be on January 17 from 9:00am to 11:00am, we will announce the room in due course.

Grading: Your grade for my part of the course will be based on five problem sets, counting for 30% of the grade, and a midterm exam, counting for 70%.

Recommended Books: I will use slides in the class and most of the relevant material will be in the slides. However, the following books will be useful. I might assign some papers later in the course as well.


Topics:

- **Week 1:** Deterministic Dynamic Programming
- **Week 3:** Stochastic Dynamic Programming and the Search Model
- **Week 2:** Recursive Competitive Equilibrium
- **Week 4:** Business Cycles
- **Week 5:** Overlapping Generations
- **Week 6:** Firm Dynamics and Aggregation