14.461: Part I: Technology and the Macroeconomy

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Course Logistics

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Lectures: TuTh 1:00-2:30 pm E51-361
Recitations: Fr 2:30-4:00 pm E51-361
Office hours: Fr 4:00-5:30 pm E52-314

Course Overview

This course will cover selected topics in theoretical and empirical analysis of technology and technological change.

There will be three problem sets, which will count towards 30% of your final grade. The remaining 70% will be from a project due in November (exact time to be determined). This project will either be a proposal for a research article, or application of an empirical paper from a prearranged list, or a detailed critique and extension of an existing theoretical article. More details on the available choices for the project will be provided later.

Please note that two of the lectures will be on Friday during the recitation time.
Reading List

Review of Basic Models of Endogenous Technological Progress (one lecture)

Main reading:


Other references:


Knowledge Spillovers and Diffusion (one lecture)

Main reading:


Other references:


Competition, Policy and Technological Change (one lecture)

Main reading:


Other references:


**Technology, Tasks and the Labor Market (one lecture)**

Main reading:


Other references:


Directed Technological Change and Implications (three lectures)

Main reading:


Other references:


Innovation and Reallocation (one lecture, DA)

Main reading:


Other references:


Climate Change and Technology (one lecture)

Main reading:


Other references:


Innovation, Creativity and Technological Progress (one lecture)

Main reading:


Other references:


Misallocation and Productivity Differences Across Countries (one lecture)

Main reading:


Other references:


Network Linkages: Technology, Productivity and Volatility (two lectures)

Main reading:


Other references:


