

Lectures on Social and Economic Networks: A tentative syllabus

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Content: This mini course on networks will focus on social and economic aspects of networks. The course will begin by motivating the study of networks and the role they play in our lives. It will introduce concepts from graph theory and game theory necessary for the study of networks. Next, strategic and non-strategic models of network formation will be covered. Finally some applications will also be introduced.

Course material: The course will use material primarily from the text book on the subject by Matt Jackson along with a number of papers. References for papers will be provided as the course progresses. Those interested in pursuing the topic further may wish to consult a textbook on graph theory.

Textbooks:

- Social and Economic Networks (2010), Matthew O. Jackson, *Princeton University Press*.
- Connections: An Introduction to the Economics of Networks (2009), Sanjeev Goyal, *Princeton University Press*.
- Introduction to Graph Theory, (2000), Douglas B. West, *Pearson Publishers (2nd Ed.)*.