

# Enquire Teaching Timetable

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## Course Outcome

### ECON 4130 - Economic Analysis for Social Networks

#### Learning Outcome

1. Acquainted with basic terminologies in social and economic network analysis.
2. Able to perform econometric regressions on network data and provide economic interpretations.
3. Understand the common machine learning techniques used in analyzing data from social media.
4. Able to use software R and Python to collect data and conduct network analysis.

#### Course Syllabus

1. Network data and descriptive statistics
2. Using network statistics in regressions
3. Network structure and diffusion
4. Social interactions and peer effects in networks
5. Network formation
6. Obtaining data from social media
7. Machine learning techniques
  - a. Analyzing consumer preference
  - b. Representing graphical data
  - c. Analyzing text data

#### Assessment Type

	Assessment Type	Current Percent
1	Homework or assignment	40
2	Project	60

#### Feedback for Evaluation

- Course and teaching evaluation at end of course
- Informal feedback channels throughout the course (face-to-face, email, course website)
- Feedbacks from students in annual departmental retreat
- Feedbacks from Program Review and Visiting Committee

#### Required Readings

course materials to be designed and compiled by the teachers concerned.

#### Recommended Readings

- Kolaczyk, E. D. (2009) Statistical Analysis of Network Data: Method and Models, Springer  
 Kolaczyk, E. D. and Csardi, G. (2014) Statistical Analysis of Network Data with R, Springer

Newman, M. (2010) Networks: An Introduction, Oxford University Press  
Hastie, Trevor, Robert Tibshirani and Jerome Friedman (2016) The Elements of Statistical Learning, Springer