COM 682 Advanced Social Network Analysis

THURS 6–8:50 PM, SPRING 2019

Course Instructor : Seungyoon Lee
seungyoon@purdue.edu

This course is designed for students who are interested in:

- Gaining an in-depth understanding of social structures, how they emerge and evolve, and the underlying mechanisms
- Using network analysis in their own research, by learning how to collect and analyze network data
- Gaining hands-on experience using advanced network analysis methodologies and tools, including network statistics and visualization (Statnet and igraph packages in R), p* (Exponential Random Graph Modeling), longitudinal actor-oriented models (RSiena), and personal (i.e., ego-centric) networks (E-Net)

The course requires basic understanding of network concepts such as density, mutuality, and centralization and familiarity with handling network data format. Basic knowledge of regression analysis and significance tests is also required.

Students are welcome to, but not required to, bring their own network research context and data.