ICPSR Summer Workshop
Social Networks Analysis: Theory and Methods
Indiana University Bloomington
August 6-10, 2012

Logistics/Schedule
Location: TBD

8:30 a.m. to 11:15 a.m.  Bernice Pescosolido (pescosol@indiana.edu)
11:15 a.m. to 12:30 p.m.  Lunch
12:30 p.m. to 2:45 p.m.  Ann McCranie (amccrani@indiana.edu)
2:45 p.m. to 3:15 p.m.  Break

Lab Sessions – TBD
3:15 p.m. to 5:30 p.m.
5:30 p.m. to 6:00 p.m.  Wrap-up, discussion

Course Description
This workshop covers the theory and methods of network analysis. It is designed for students, faculty, and other researchers in the social and behavioral sciences who are interested in understanding the breadth and depth of the social network approach and in learning how to translate theoretical conceptualizations of networks into empirical practice. Morning and afternoon sessions are coordinated so that each day presents theoretical, historical and substantive developments in the field with parallel issues and examples in data and analytic techniques.

Readings
There one required text for this class, and there will also be some additional articles (which will be provided) that we will ask you to read. There is a lot of reading; don’t panic. Simply try to become familiar with key terms and concepts – and read more in depth when you face issues in your own research.

Required Books (Can be purchased through Amazon.com or other online book sellers.)

Optional Books


Scott, John and Carrington, Peter. 2011 The SAGE Handbook of Social Network Analysis. SAGE Publications. (About $128, don’t purchase Models and Methods if you get this book – many chapters are effectively duplicated and updated.)
Schedule of Classes and Lab Exercises

**Monday, August 6**

**Seminar: Principles of Network Theory and Terminology**

*This day will be devoted to introductions -- the underlying ideas of network theory, the kinds of data that are used, how network data are gathered, and matrix formats and notation. UCINet, NetDraw, Pajek will be introduced in the afternoon.*

Lab: Getting Familiar with UCINet, getting data into matrices, and drawing graphs with NetDraw.

Skim before Monday’s class:

— Chapters 1, 2, 3 in Wasserman and Faust (skim only)

You may also be interested in:


**Tuesday, August 7**

**Seminar: The Pre-History and Early History of Network Theory: Durkheim and Simmel, Yesterday and Today**

*This day will look to Durkheim, Simmel and others who pioneered ideas about social interactions from a structural point of view. The theoretical work will also focus on how to translate these general ideas about social relations into network terms. The afternoon will focus on graph theory, issues of reachability and centrality, and basic network statistics and characteristics.*

Lab: Centrality exercises and basic network metrics

Review before Tuesday’s class:

— Chapters 4, 5 in Wasserman and Faust (skim only)
You may also be interested in:


**Wednesday, August 8**
Sociometry, Moreno, and the Harvard School

This day will focus on the 30's and the innovations in standardized terminology, the use of the sociomatrix, etc. We will also look at the theoretical and methodological advances in network theory that occurred in the early and mid-1970s. The afternoon will focus on balance theory, transitivity, cliques, cohesive subgroups, etc.

Lab: Cliques and subgroups

Review Before Wednesday’s Class:

- Wasserman and Faust, Chapters 6 and 7 (skim)

You may also be interested in:

Thursday, August 9  
Seminar: **Enter Network Science and Transdisciplinarity: The Network Wars**

On Thursday evening we will gather as a class after lab at a local bar and grill for a casual dinner. We will provide you information about the location and time in class.

*Thursday morning’s seminar time will focus on the “network wars” and the new and old contributions of the modern era of networks. We will work through one specific theoretical problem (Network Episode Model) and how this plays out historically. We will also use some the morning seminar time to raise and answer questions about data collection.*

Lab: Blockmodeling, Introduction to Pajek.

Review before Thursday’s class:

- Wasserman and Faust, Chapters 9 and 10

You may also be interested in:


Friday, August 10  
Seminar: **Where to next: Dynamics and specificity, large and small**

*The final day will examine more recent concerns in network theory and analysis (e.g., dynamics) and the methodological issues and tools required and currently available to deal with issues of change in networks.*

Lab: Developments in software, getting your own data ready for analysis.

Review before Friday’s class:


— Perry, Brea L. and Bernice Pescosolido. 2010. “Functional Specificity in Discussion Networks: The Influence of General and Problem-Specific Networks on Health Outcomes.” *Social Networks* 32:345-57. (provided in packet)


— Perry, B.L. and B.A. Pescosolido. Forthcoming. “Social Network Dynamics in the Face Of Biographical Disruption: The Case of “First Timers” With Mental Illness” in American Journal of Sociology. (provided in packet)

You may also be interested in:
