

# Social Network Analysis

**Lecturer**

Matteo GAGLILOLO (Coordinator)

**Course mnemonic**

SOCA-D460

**ECTS credits**

5 credits

**Language(s) of instruction**

English

**Course period**

Second term

## Course content

- > Networks: definitions, terminology, matrix representation
- > Network data in the social sciences
- > R basics and network-related packages
- > Graphical representation of network data
- > Basic global and local measures
- > Centrality measures
- > Community structure
- > Social capital and hierarchy
- > Influence

## Objectives (and/or specific learning outcomes)

Acquiring the fundamental theoretical background and practical skills to perform a quantitative analysis of network data.

## Teaching method and learning activities

The course will be held in a computer room, combining theory with its immediate application, mostly using the R language via the RStudio interface. Prior knowledge of R is not assumed. Additional free software may be used for visualisation.

## Contribution to the teaching profile

Quantitative methods

## References, bibliography and recommended reading

TBA

## Other information

### Contact(s)

Matteo GAGLILOLO <Matteo.Gagliolo@ulb.ac.be>

## Evaluation method(s)

Other

### Evaluation method(s) (additional information)

Personal or group project consisting of an annotated analysis of a network dataset, to be presented and defended orally.

### Main language(s) of evaluation

English and French

## Programmes

### Programmes proposing this course at the faculty of Philosophy and Social Sciences

MA-ANTR | **Master in Anthropology** | finalité Professional/unit 1 and finalité Professional/unit 2, MA-ETEU | **Master in European Studies** | finalité European Politic/unit 1 and finalité EU and Asia/unit 1, MA-PINT | **Master in Political Sciences : International Relations** | finalité Security, peace, conflicts/unit 1, finalité World/unit 1 and finalité Globalisation and public policies/unit 1, MA-POLI | **Master in Political Sciences : General** | finalité Political Communication/unit 1 and finalité Democratic Challenges/unit 1, MA-SOCO | **Master in Sociology** | finalité Professional/unit 1 and finalité Professional/unit 2 and MS-SOCA | **Specialized Master in sociology-antropology** | unit U