

COURSE DETAIL

THE ECONOMICS THEORY OF NETWORKS AND STRATEGIC INTERACTION

Country

France

Host Institution

Institut d'Etudes Politiques (Sciences Po)

Program(s)

Sciences Po Paris

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Sociology Economics

UCEAP Course Number

154

UCEAP Course Suffix**UCEAP Official Title**

THE ECONOMICS THEORY OF NETWORKS AND STRATEGIC INTERACTION

UCEAP Transcript Title

THEORY OF NETWORKS

UCEAP Quarter Units

4.50

UCEAP Semester Units

3.00

Course Description

Occupying a favorable position in a network can be seen as a strategic asset. This course is interested in understanding how rational individuals behave when they position themselves in networks or interact through a given network. These issues are analyzed in the microeconomic/game theoretical framework of utility maximizing agents. Tools for modeling, describing, and analyzing networks are introduced and criteria for identifying the most central, well-connected, or influential agents in the network are reviewed. The problem of strategic network formation is explored in different contexts and the stability and efficiency of the networks that are formed are analyzed. Finally, the course is interested in how network architecture can influence different social processes such as the spread of an innovation or a trend in a population or the adoption of socially desirable or undesirable behaviors.

Language(s) of Instruction

English

Host Institution Course Number

DECO 25A17

Host Institution Course Title

THE ECONOMICS THEORY OF NETWORKS AND STRATEGIC INTERACTION

Host Institution Campus

Paris

Host Institution Faculty

Host Institution Degree

Host Institution Department

Economics

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