

COURSE DETAIL

INTRODUCTION TO COMPUTATIONAL SOCIAL SCIENCE

Country

Sweden

Host Institution

Uppsala University

Program(s)

Uppsala University

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Sociology Political Science Computer Science

UCEAP Course Number

108

UCEAP Course Suffix**UCEAP Official Title**

INTRODUCTION TO COMPUTATIONAL SOCIAL SCIENCE

UCEAP Transcript Title

INTRO COMP SOCI SCI

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

The course introduces computational approaches to model human behavior and social phenomena. Core concepts in computational social science are covered, such as observational studies (what types of data exist, possible biases, and how to use data for modeling), basic concepts and techniques for running experiments (asking vs. observing, natural experiments, simulations, validity, and generalization) and discuss key issues such as ethical considerations. The course has both a theoretical and a practical perspective, where you learn basic principles and also how to apply them in practice in three main areas: social network analysis; text analysis; agent-based modeling, and simulation.

Language(s) of Instruction

English

Host Institution Course Number

1DL007

Host Institution Course Title

INTRODUCTION TO COMPUTATIONAL SOCIAL SCIENCE

Host Institution Campus

Uppsala University

Host Institution Faculty

Host Institution Degree

Host Institution Department

Department of Information Technology

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