

This module provides an overview of common statistical methods applied to the social sciences, with particular focus on political science, sociology, public policy and development. It starts with a brief recap of the basic principals of statistical analysis, then discusses how to access, manipulate, and summarize data, and then moves on to a range of different methods - regression analysis, logistic regression, dimension reduction techniques, quantitative text analysis, etc. - that are commonly used in social science empirical research or in contemporary data science applications. It reviews both long established and cutting-edge techniques.

All material is discussed using real world examples of data analysis, with both micro- and macro-level data, and the lab exercises form the basis for the continuous assessments. Rather than delving deeply into the mathematical properties of various techniques, this module focuses on the application and the types of problems where particular techniques can be applied.

Curricular information is subject to change

What will I learn?

- Learning Outcomes:
- Basic understanding of statistical analysis in the social science
- Ability to manipulate data sets to prepare for statistical analysis
 - Ability to select the appropriate statistical technique for a range of different types of empirical questions
 - Ability to execute a range of standard techniques
 - Ability to describe, interpret, and present statistical analysis to a wider audience
 - Ability to translate statistical results to substantive relevance
 - Introductory level skills in data analysis in R
 - Ability to organise data analysis and results

How will I learn?

Student Effort Hours:

Student Effort Type	Hours
Lectures	12
Computer Aided Lab	12
Autonomous Student Learning	100
Total	124

Am I eligible to take this module?

Requirements, Exclusions and Recommendations

Learning Recommendations:

An introductory statistics course prior to this course is recommended but not required.

Module Requisites and Incompatibles

How will I be assessed?

Description	% of Final Grade	Timing
Continuous Assessment: Assignment 2	40	Unspecified
Continuous Assessment: Assignment 3	40	Unspecified
Continuous Assessment: Assignment 1	20	Unspecified

What happens if I fail?

Compensation

This module is not passable by compensation

Resit Opportunities

In-semester assessment

Remediation

If you fail this module, there will be a resit available in form of an 'in semester assessment'. You should register for this 'in semester assessment' at the start of the following semester. Note that it is YOUR responsibility to contact the Module Coordinator to find out what the 'in semester assessment' will be and when it will take place.

Reading List

UCD Course Search

Data Analytics for Soc Sci (POL30430)

Academic Year 2018/2019

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Data Analytics for Soc Sci (POL30430)

Subject:

Politics

College:

Social Sciences & Law

School:

Politics & Int Relations

Level:

3 (Degree)

Credits:

5.0

Semester:

Semester One

Module Coordinator:

Assoc Professor Jos Dornschneider-Elkink

Mode of Delivery:

N/A

How will I be graded?

40%

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