



# POL50050 - Module Details

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by

POL50050 Quantitative Methods II

Academic Year 2018/2019

Fundamentals of multiple regression analysis, including issues such as heteroscedasticity, autocorrelation, specification. In the second half, attention will be paid to estimating and presenting limited dependent variable models and multilevel and panel data. Roughly covers the curriculum of an introductory econometrics course, but with emphasis on limited dependent variable models rather than time series analysis for the more advanced components.

Curricular information is subject to change

## What will I learn?

Learning Outcomes:

- Good understanding of linear regression, its underlying assumptions, and basic diagnostics
- Good understanding of maximum likelihood estimation
- Good practical understanding of regression models for limited dependent variable
- Good practical understanding of using R for statistical analysis
- Basic understanding of time series and panel data methods
- Basic understanding of causal inference techniques
- Ability to present and interpret statistical results for academic publications

## How will I learn?

Student Effort Hours:

Student Effort Type	Hours
Lectures	18
Computer Aided Lab	6
Autonomous Student Learning	200
<b>Total</b>	<b>224</b>

## Am I eligible to take this module?

Requirements, Exclusions and Recommendations

Learning Requirements:

- This course assumes prior training in basic statistics, including:
- hypothesis tests, p-values, sampling distribution
  - correlation, covariance, linear regression
  - basic data file management

Module Requisites and Incompatibles

Not applicable to this module.

## How will I be assessed?

Assessment Strategy

Description	Timing	Component Scale	Must Pass Component	% of Final Grade
Assignment: Homework 3	Week 9	Letter Grade	No	15
Essay: Course paper	Coursework (End of Trimester)	Letter Grade	No	50
Assignment: Homework 2	Week 6	Letter Grade	No	10



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Assessment Strategy

Description	Timing	Component Scale	Must Pass Component	% of Final Grade
Assignment: Homework 1	Week 3	Letter Grade	No	10
Assignment: Homework 4	Week 12	Letter Grade	No	15

Carry forward of passed components  
Not yet recorded

Not yet recorded

## Assessment feedback

Not yet recorded

## Reading List

Quantitative Methods II (POL50050)

Subject: Politics

College: Social Sciences & Law

School: Politics & Int Relations

Level: 5 (Doctoral)

Credits: 10.0

Trimester: Semester Two

Module Coordinator: Dr Stephanie Dornschnieder

Mode of Delivery: Not yet recorded

Internship Module: No

Clinical/ Fieldwork/ Placement: Not yet recorded

How will I be graded?: 40%