

Year 1

## Engage with the Principles

Introduction to Computational Social Science

Statistical modelling

Introduction to Programming 1

Plus core modules in any two of the following subjects:  
 Sociology  
 Geography  
 Economics  
 Politics

Calculus 1

Linear Analysis 1

Year 2

## Deepen Your Understanding

Introduction to Social Simulation

Probability Theory

Introduction to Programming 2

Continue with core and option modules your two subjects:  
 Sociology  
 Geography  
 Economics  
 Politics

Calculus 2

Linear Analysis 2

Many additional specialist options are available in Year 3 and Year 4 and options are reviewed and updated regularly.

Year 3

## Refine Your Knowledge

Computational Social Science Workshop

Social Dynamics and Networks

Statistical Data Mining

Continue with your two subjects:  
 Sociology  
 Geography  
 Economics  
 Politics

Relational Databases and Information Systems

Optional Study Abroad

Optional Internship

Year 4

## Further Specialisation

Workshop and Research Project

Law Ethics and Data

Data Programming with R

Continue with your subjects:  
 Sociology  
 Geography  
 Economics  
 Politics

Data Mining

Introduction to Creative Thinking

Spatial Information Systems

Advanced Predictive Analytics

## BSc Computational Social Science

### UCD Graduate Study and Career Opportunities

#### Specialise with UCD School of Sociology

MSc in Social Data Analytics  
 MSc in Sociology

MLitt Sociology | PhD Sociology  
 PhD Complex Systems and Computational Social Science  
 PhD Quantitative Social Science

Research & Academia

#### Complementary/Conversion Master's Degrees

MSc in Computer Science  
 MSc Quantitative Finance  
 MSc Digital Information Management  
 MSc Management  
 MSc Digital Marketing  
 Masters in Common Law  
 MSc in Data Analytics  
 MSc in Business Analytics

#### Shape your Career

Data Analyst  
 Researcher  
 Journalist  
 Programmer  
 Consultant  
 Civil Servant

→ optional