

# Computational Social Science

## What will I study?

### 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
Linear Algebra 1*	Mathematics: Introduction*	Information and Social Media	

### Year 2 Deepen Your Understanding

Calculus 1*	Probability Theory*	Introduction to Programming 2*	Continue with core and option modules in your two subjects: Sociology Geography Economics Politics
Applied Computational Social Science*	Advanced Computational Social Science*	Digital Judgement	

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

### Year 3 Refine Your Knowledge

Statistical Data Mining	Information Ethics	Web Multimedia	Continue with your two subjects: Sociology Geography Economics Politics
Introduction to Artificial Intelligence	Optional Study Abroad	Optional Internship	

### Year 4 Further Specialisation

Quantitative Research Project*	Data Analysis for the Social Sciences*	Social Dynamics and Networks*	Continue with your subjects: Sociology Geography Economics Politics
Data Mining	Introduction to Creative Thinking	Spatial Information Systems	
Advanced Predictive Analytics			

\*core

## BSc Computational Social Science

## UCD Graduate Study and Career Opportunities

**Specialise with UCD School of Sociology**

MSc Social Data Science  
MSc in Sociology  
↓  
MLitt Sociology  
PhD Sociology  
PhD Quantitative and Computational Social Science  
↓  
Research & Academia

**Complementary/Conversion Master's Degrees**

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

**Shape your Career**

Data Scientist  
Researcher  
Journalist  
Programmer  
Consultant  
Civil Servant