

Birmingham City University (BCU)

www.bcu.ac.uk

MSc Big Data Analytics

Location: Birmingham

Start: September, January

Duration: 1 year

Tuition Fees: £17,710

English requirement: UKVI IELTS 6.0 (no less than 5.5 in any bands)

Modules

Module Professional Placement (optional)

In order to complete this course a student must successfully complete all the following CORE modules (totalling 180 credits):

- Modern Optimisation - 20 credits
- Applied Statistics - 20 credits
- Advanced Databases - 20 credits
- Big Data Management - 20 credits
- Data Mining - 20 credits
- Web Social Media Analytics and Visualisation - 20 credits
- Individual Master's Project - 60 credits

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University of the West of England (UWE Bristol)

www.uwe.ac.uk

MSc Data Science

Location: Bristol

Start: September, January

Duration: 1 year

Tuition Fees: £16,750

English requirement: UKVI IELTS 6.5 (no less than 5.5 in any bands)

Content

You'll study the following core modules:

- Data Management Fundamentals
- Interdisciplinary Group Project
- Programming for Data Science
- Statistical Inference
- CSCT Masters Project.

Plus, two optional modules from:

- Advanced Statistics
- Big Data
- Business Intelligence and Data Visualisation
- Cloud Computing
- Data and Information Governance
- Designing the User Experience
- Knowledge Management
- Linked, Open Data and the Internet of Things
- Machine Learning and Predictive Analytics
- Social Media and Web Science.

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Brunel University

www.brunel.ac.uk

MSc Data Science and Analytics

Location: London

Start: September

Duration: 1 year

Tuition Fees: £25,000

English requirement: UKVI IELTS 6.5 (no less than 6.0 in any bands)

Course content

Compulsory

- Modern Quantitative Data Analysis
- Critical Analysis of Modern Data
- Data Visualisation
- Research Project Management
- Ethics and Governance of Digital Systems
- Machine Learning and Distributed Computing
- Digital Innovation and Strategy
- Distributed Data Analysis

MSc Statistics with Data Analytics

Location: London

Start: September

Duration: 1 year

Tuition Fees: £25,000

English requirement: UKVI IELTS 6.5 (no less than 6.0 in any bands)

Course content

Compulsory

- MA5602 - Probability and Stochastics
- MA5627 - Research Methods and Case Studies
- MA5632 - Computer Intensive Statistical Methods
- MA5634 - Fundamentals of Machine Learning
- MA5636 - Quantitative Data Analysis
- MA5638 - Big Data Analytics
- MA5633 - Dissertation
- MA5603 - Financial Markets
- MA5629 - Time Series Modelling

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Coventry University

www.coventry.ac.uk

MSc Data Science

Location: Coventry Campus

Start: September, January, May

Duration: 1 year

Tuition Fees: £20,050

English requirement: UKVI IELTS 6.5 (no less than 6.0 in any bands)

Modules:

- Programming for Data Science - 30 credits
- Principles of Data Science - 30 credits
- Big Data Analytics and Data Visualisation - 15 credits
- Data Management Systems - 15 credits
- Individual Research Project Preparation - 15 credits
- Machine Learning - 15 credits
- Global Professional Development – Entrepreneurial Practice - 10 credits
- Data Science Project - 50 credits

MSc Data Science and Computational Intelligence

Location: Coventry Campus

Start: September, January, May

Duration: 1 year

Tuition Fees: £20,050

English requirement: UKVI IELTS 6.5 (no less than 6.0 in any bands)

Modules:

- Machine Learning – 15 credits
- Data Management Systems – 15 credits
- Introduction to Statistical Methods for Data Science – 15 credits
- Natural Language Processing – 15 credits
- Big Data Analytics and Data Visualisation – 15 credits
- Artificial Neural Networks – 15 credits

- Modelling and Optimisation Under Uncertainty – 15 credits
- Individual Research Project Preparation– 15 credits
- Computing Individual Research Project – 60 credits

MSc Digital Marketing with Data Analytics

Location: City of London Campus

Start: September, January

Duration: 1 year

Tuition Fees: £20,050

English requirement: UKVI IELTS 6.5 (no less than 6.0 in any bands)

Modules:

- Digital Transformation - 15 credits
- Digital Marketing Strategy - 15 credits
- New Media Communications and Content Marketing - 15 credits
- Buyer Behaviour in the Digital Era - 15 credits
- Data Analytics for Digital Marketers - 15 credits
- Creativity and Brand Storytelling - 15 credits
- Marketing Management and Planning - 15 credits
- Research Methods for the Creative and Service Industries - 15 credits
- CMI Leading Diverse Workforces - 10 credits
- Final Semester Project Options
- MSc with Extended Professional Practice (EPP)

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De Montfort University

www.dmu.ac.uk

MSc Data Analytics

Location: Leicester

Start: September, January

Duration: 1 year (September), 16 months (January)

Tuition Fees: £17,600

Requirement: IELTS 6.0 (5.5 each band)

Course modules:

- Data Analytics Infrastructure
- Big Data Applications
- Data Mining Techniques and Methods
- Project proposal, Planning and project management (PPPM)
- PGT Project

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University of East Anglia (UEA)

www.uea.ac.uk

MSc Data Science

Location: Norwich

Start: September

Duration: 1 year

Tuition Fees: £22,900

English requirement: UKVI IELTS 6.5 (with 6.0 in all components)

Course Modules

COMPULSORY MODULES

- DATA MINING
- RESEARCH METHODS
- DISSERTATION
- APPLIED STATISTICS

OPTIONAL A MODULES (Credits: 20)

- INFORMATION VISUALISATION

- ARTIFICIAL INTELLIGENCE
- OPTIONAL B MODULES (Credits: 40)**
- HUMAN COMPUTER INTERACTION
 - COMPUTER VISION
 - INFORMATION VISUALISATION
 - APPLICATIONS PROGRAMMING
 - ARTIFICIAL INTELLIGENCE
 - DATABASE MANIPULATION
 - AUDIO AND VISUAL PROCESSING

MSc Economics and Data Science

Location: Norwich

Start: September

Duration: 1 year

Tuition Fees: £21,200

English requirement: UKVI IELTS 6.0 (with minimum 6.0 in Writing & Speaking and 5.5 in Listening & Reading)

Course Modules

COMPULSORY MODULES

- MICROECONOMICS
- ECONOMETRIC THEORY
- MACROECONOMICS
- APPLIED ECONOMETRICS
- PROGRAMMING AND ANALYTICS FOR BEHAVIOURAL ECONOMISTS
- ECONOMIC APPLICATIONS OF DATA SCIENCE (EDS)
- ECONOMICS DISSERTATION (60 CREDITS)

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University of East London (UEL)

www.uel.ac.uk

MSc Data Science

Location: London

Start: September, January

Duration: 1 year

Tuition Fees: £15,240

English requirement: UKVI IELTS 6.0 (with minimum 6.0 in writing and speaking, and 5.5 in listening and reading)

Course content

CORE MODULES

- Mental Wealth; Professional Life (Data Ecology)
- Advanced Decision Making: Predictive Analytics & Machine Learning
- Spatial Data Analysis
- Data Science Dissertation
- Variation for Online Learning Students

MSc AI and Data Science

Location: London

Start: September

Duration: 1 year

Tuition Fees: £15,960

English requirement: UKVI IELTS 6.0 (with minimum 6.0 in writing and speaking, and 5.5 in listening and reading)

Course content

CORE MODULES

- Software Engineering
- Artificial Intelligence & Machine Vision
- Machine learning on Big Data
- Mental Wealth; Professional Life (Dissertation)
- The Fundamentals of Artificial Intelligence

MSc Big Data Technologies

Location: London

Start: September, January

Duration: 1 year

Tuition Fees: £15,240

English requirement: UKVI IELTS 6.0 (with minimum 6.0 in writing and speaking, and 5.5 in listening and reading)

Course content

CORE MODULES

- Big Data Analytics
- Cloud Computing
- Machine learning on Big Data
- Mental Wealth; Professional Life (Dissertation)

OPTIONAL MODULES

- Security Management
- IT & Internet Law

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University of Essex

www.essex.ac.uk

MSc Data Science

Location: Colchester

Start: October

Duration: 1 year

Tuition Fees: £21,700

English requirement: UKVI IELTS 6.0 (with minimum 5.5 in all component)

Course content

Compulsory

- Introduction to Programming in Python (15 CREDITS)
- Applied Regression and Experimental Data Analysis (15 CREDITS)
- Applied Statistics (15 CREDITS)
- Databases and data processing with SQL (15 CREDITS)
- Data Visualisation (15 CREDITS)
- Research Skills and Employability (0 CREDITS)

Compulsory with options (15 credits)

- Machine Learning (15 CREDITS)
- Artificial intelligence and machine learning with applications (15 CREDITS)

Core with options (60 credits)

- Dissertation (60 CREDITS)
- Dissertation with Professional Placement (60 CREDITS)

Optional: Option from list A (15 credits)

- Network Analysis (15 CREDITS)
- Nonlinear Programming (15 CREDITS)
- Combinatorial Optimisation (15 CREDITS)
- Dynamic programming and reinforcement learning (15 CREDITS)

Optional: Option from list B (15 credits)

- Information Retrieval (15 CREDITS)
- Text Analytics (15 CREDITS)
- Natural Language Engineering (15 CREDITS)
- Data Science and Decision Making (15 CREDITS)
- Neural Networks and Deep Learning (15 CREDITS)
- Big-Data for Computational Finance (15 CREDITS)

MSc Applied Data Science

Location: Colchester

Start: January

Duration: 1 year

Tuition Fees: £20,700

English requirement: UKVI IELTS 6.0 (with minimum 5.5 in all component)

Course content

Year 1

Compulsory with options (15 credits)

- An Approachable Introduction to Programming (15 CREDITS)
- Network Analysis (15 CREDITS)

Compulsory

- Data Visualisation (15 CREDITS)
- Programming and Text Analytics with R (15 CREDITS)

- Databases and data processing with SQL (15 CREDITS)
- Data analysis and statistics with R (15 CREDITS)
- Modelling experimental and observational data (15 CREDITS)
- Artificial intelligence and machine learning with applications (15 CREDITS)
- Foundational Mathematics for Data Science (15 CREDITS)
- Research Skills and Employability (0 CREDITS)

Final year

Core with options (60 credits)

- Dissertation (60 CREDITS)
- Dissertation with Professional Placement (60 CREDITS)

MSc Social Data Science

Location: Colchester

Start: October

Duration: 1 year

Tuition Fees: £22,400

English requirement: UKVI IELTS 6.5 (with minimum 5.5 in all component)

Course content

Core

- MA Dissertation (60 CREDITS)
- Data for Social Data Science (30 CREDITS)

Core with options (15 credits)

- An Approachable Introduction to Data Science (15 CREDITS)
- Data Science and Decision Making (15 CREDITS)

Compulsory

- Research Design (15 CREDITS)

Optional: Option(s) from list (30 credits)

- Information Retrieval (15 CREDITS)
- Machine Learning (15 CREDITS)
- Text Analytics (15 CREDITS)
- Natural Language Engineering (15 CREDITS)
- Introduction to Econometric Methods (20 CREDITS)
- Introductory Econometrics (20 CREDITS)
- Econometric Methods (20 CREDITS)
- Microeconometrics (20 CREDITS)
- Estimation and Inference in Econometrics (20 CREDITS)
- Panel Data Methods (20 CREDITS)
- Applications of Data Analysis (20 CREDITS)
- From Cradle to Grave: Social Justice in Childhood, Adulthood, and Death (15 CREDITS)
- Comparative Environmental Politics (15 CREDITS)
- Introduction to Quantitative Analysis (20 CREDITS)
- Advanced Quantitative Analysis: Models for Cause and Effect (20 CREDITS)

Optional: Option(s) from list (40 credits)

- Information Retrieval (15 CREDITS)
- Machine Learning (15 CREDITS)
- Text Analytics (15 CREDITS)
- Natural Language Engineering (15 CREDITS)
- Introduction to Econometric Methods (20 CREDITS)
- Introductory Econometrics (20 CREDITS)
- Econometric Methods (20 CREDITS)
- Microeconometrics (20 CREDITS)
- Estimation and Inference in Econometrics (20 CREDITS)
- Panel Data Methods (20 CREDITS)
- Applications of Data Analysis (20 CREDITS)
- From Cradle to Grave: Social Justice in Childhood, Adulthood, and Death (15 CREDITS)
- Comparative Environmental Politics (15 CREDITS)
- Introduction to Quantitative Analysis (20 CREDITS)
- Advanced Quantitative Analysis: Models for Cause and Effect (20 CREDITS)

MSc Data Science and its Applications

Location: Colchester

Start: January

Duration: 1 year

Tuition Fees: £20,700

English requirement: UKVI IELTS 6.0 (with minimum 5.5 in all component)

Course content

Compulsory

- Modelling experimental and observational data (15 CREDITS)
- Data analysis and statistics with R (15 CREDITS)
- Programming and Text Analytics with R (15 CREDITS)
- Databases and data processing with SQL (15 CREDITS)
- Data Visualisation (15 CREDITS)
- Research Skills and Employability (0 CREDITS)

Compulsory with options (15 credits)

- Machine Learning (15 CREDITS)
- Artificial intelligence and machine learning with applications (15 CREDITS)

Compulsory with options (15 credits)

- An Approachable Introduction to Programming (15 CREDITS)
- Network Analysis (15 CREDITS)

Compulsory with options: Option from list (15 credits)

- Information Retrieval (15 CREDITS)
- Text Analytics (15 CREDITS)
- An Approachable Introduction to Data Science (15 CREDITS)
- Big-Data for Computational Finance (15 CREDITS)
- Dynamic programming and reinforcement learning (15 CREDITS)

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University of Exeter

www.exeter.ac.uk

MSc Data Science

Location: Exeter

Start: October

Duration: 1 year

Tuition Fees: £29,100

English requirement: UKVI IELTS 6.5 (with no less than 6.0 in writing and no less than 5.5 in any other section)

Course content

Compulsory modules

Code	Module	Credits
ECMM443	Introduction to Data Science	15
ECMM444	Fundamentals of Data Science	15
ECMM422	Machine Learning	15
ECMM445	Learning from Data	15
ECMM451	Data Science Research Project	60

Optional modules

Code	Module	Credits
Select 60 credits:		
BEMM129	Digital Business Models	15
COMM511	Statistical Data Modelling	15
ECMM409	Nature-Inspired Computation	15
ECMM410	Research Methodology	15

ECMM423	Evolutionary Computation & Optimisation	15
ECMM426	Computer Vision	15
ECMM447	Social Networks and Text Analysis	15
ECMM450	Stochastic Processes	15
ECMM461	High Performance Computing	15
MTHM033	Statistical Modelling in Space and Time	15
MTHM508	Bayesian Philosophy and Methods in Data Science	15
SOCM033	Data Governance and Ethics	15
COMM510	Multi-Objective Optimisation and Decision Making	15

MSc Applied Data Science (Ecology and Evolution)

Location: Exeter

Start: October

Duration: 1 year

Tuition Fees: £27,500

English requirement: UKVI IELTS 6.5 (with no less than 6.0 in writing and no less than 5.5 in any other section)

Course content

Compulsory modules

Code	Module	Credits
MTHM601	Fundamentals of Data Science	30
MTHM602	Trends in Data Science and AI	15
MTHM603	Data Science and Modelling Dissertation	60
MTHM604	Tackling Sustainability Challenges using Data and Models	30
BIOM4046	Evolutionary and Behavioural Ecology: Frontiers and Approaches	30

Optional modules

Code	Module	Credits
Select 15 credits:		
LESM005	Applied Data Analysis	15
BIOM4014	Preparing for Ecological Consultancy	15
GEOM406	Marine and Coastal Sustainability	15
BIO3131	Trends in Ecology and Evolution	15
BIO3401	Coevolutionary Interactions	15
BIO3415	Ecological Responses to Climate Change	15
BIO3421	Animal Migration	15

MSc Applied Data Science (Environment and Sustainability)

Location: Exeter

Start: October

Duration: 1 year

Tuition Fees: £27,500

English requirement: UKVI IELTS 6.5 (with no less than 6.0 in writing and no less than 5.5 in any other section)

Course content

Compulsory modules

Code	Module	Credits
MTHM601	Fundamentals of Data Science	30
MTHM602	Trends in Data Science and AI	15
MTHM603	Data Science and Modelling Dissertation	60
MTHM604	Tackling Sustainability Challenges using Data and Models	30

Optional modules

Code	Module	Credits
<i>Fundamentals of Environment and Sustainability - Choose 30 credits:</i>		
GEOM406	Marine and Coastal Sustainability	15
GEOM407	Perspectives on Sustainable Development	15
GEOM408	Transdisciplinary Methods on Sustainable Science	15
GEOM404	Policy and Governance for Sustainability	15
<i>Choose 15 credits:</i>		
LESM005	Applied Data Analysis	15
LESM006	The Art of Science	15
BIOM4012	Terrestrial Biodiversity and Conservation	15
BIOM4031	GIS in Conservation Science	15
BIOM4030	Planning and Leading Conservation Projects	15
HPDM029	Nature, Health and Wellbeing	15
HPDM030	Environmental Science and Population Health	15

MSc Applied Data Science (Renewable Energy)

Location: Exeter

Start: October

Duration: 1 year

Tuition Fees: £27,500

English requirement: UKVI IELTS 6.5 (with no less than 6.0 in writing and no less than 5.5 in any other section)

Course content

Compulsory modules

Code	Module	Credits
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MTHM601	Fundamentals of Data Science	30
MTHM602	Trends in Data Science and AI	15
MTHM603	Data Science and Modelling Dissertation	60
MTHM604	Tackling Sustainability Challenges using Data and Models	30
ENEM101	Renewable Energy Systems	30

Optional modules

Code	Module	Credits
Select 15 credits:		
CSMM404	Advanced Marine Renewable Energy	15
CSMM415	Advanced Wind Energy	15
CSMM427	Solar Energy Research and Innovation	15
ENEM105	Low Carbon Vehicles and Transport	15
MTHM606	Applied AI and Control	15

MSc Applied Data Science and Modelling

Location: Exeter

Start: October

Duration: 1 year

Tuition Fees: £27,500

English requirement: UKVI IELTS 6.5 (with no less than 6.0 in writing and no less than 5.5 in any other section)

Course content

Compulsory modules

Code	Module	Credits
MTHM601	Fundamentals of Data Science	30
MTHM602	Trends in Data Science and AI	15
MTHM603	Data Science and Modelling Dissertation	60
MTHM604	Tackling Sustainability Challenges using Data and Models	30
MTHM607	Computational Modelling and Simulation	30

Optional modules

Code	Module	Credits
Select 15 credits from:		
MTHM605	Complex Systems	15
MTHM606	Applied AI and Control	15

MSc Applied Data Science and Statistics

Location: Exeter

Start: October

Duration: 1 year

Tuition Fees: £29,100

English requirement: UKVI IELTS 6.5 (with no less than 6.0 in writing and no less than 5.5 in any other section)

Course content

Compulsory modules

Code	Module	Credits
MTHM501	Working with Data	15
MTHM502	Introduction to Data Science and Statistical Modelling	15
MTHM503	Applications of Data Science and Statistics	15
MTHM507	Communicating Data Science	15
MTHM017	Advanced Topics in Statistics	15
MTHM506	Statistical Data Modelling	15
MTHM505	Data Science and Statistical Modelling in Space and Time	15
SOCM033	Data Governance and Ethics	15
MTHM504	Applied Data Science and Statistics Project	60

MSc Data Science with Artificial Intelligence

Location: Exeter

Start: October

Duration: 1 year

Tuition Fees: £29,100

English requirement: UKVI IELTS 6.5 (with no less than 6.0 in writing and no less than 5.5 in any other section)

Course content

Compulsory modules

Code	Module	Credits
ECMM443	Introduction to Data Science	15
ECMM444	Fundamentals of Data Science	15
ECMM422	Machine Learning	15
ECMM445	Learning from Data	15
ECMM451	Data Science Research Project	60

Optional modules

Code	Module	Credits
Select 60 credits (See Stage Notes below*):		
ECMM409	Nature-Inspired Computation	15
ECMM423	Evolutionary Computation & Optimisation	15

ECMM426	Computer Vision	15
BEMM129	Digital Business Models	15
COMM511	Statistical Data Modelling	15
ECMM410	Research Methodology	15
MTHM047	Bayesian Statistics, Philosophy and Practice	15
ECMM447	Social Networks and Text Analysis	15
ECMM450	Stochastic Processes	15
MTHM033	Statistical Modelling in Space and Time	15
COMM510	Multi-Objective Optimisation and Decision Making	15
SOCM033	Data Governance and Ethics	15
ECMM461	High Performance Computing	15

MSc Health Data Science

Location: Exeter

Start: October

Duration: 1 year

Tuition Fees: £29,700

English requirement: UKVI IELTS 6.5 (with no less than 6.0)

Course content

Compulsory modules

The following tables describe the programme and constituent modules. Constituent modules may be updated, deleted or replaced as a consequence of the annual review of this programme.

In the first year of the MSc, all modules are compulsory, but we will provide you with some choices with the option of taking a research projects in one of the two broad themes – health services research or stratified medicine.

Code	Module	Credits
HPDM139	Coding for Machine Learning and Data Science a	15
HPDM092	Fundamentals of Research Design a	15
HPDM096	Health Statistics for Data Scientists b	15
ECMM445	Learning from Data b	15
HPDM097	Making a Difference with Health Data	30
HPDM098	Stratified Medicine	30
HPDM099	Research Project	60

MSc Finance Data Science

Location: Exeter

Start: October

Duration: 1 year

Tuition Fees: £31,000

English requirement: UKVI IELTS 6.5 (with no less than 6.0)

Course content

Compulsory modules

^a You must choose either BEAM007, BEFM027, BEAM079 or BEAM101, you cannot choose more than one module from this group. Please note if you wish to follow the Sustainable Finance pathway you must choose BEAM101

Code	Module	Credits
MTHM501	Working with Data	15
MTHM502	Introduction to Data Science and Statistical Modelling	15
BEAM072	Principles of Finance	15
BEAM078	Applied Empirical Accounting and Finance	15
BEAM035	Derivatives Pricing	15
BEAM050	Advanced Corporate Finance	15
BEAM007	Investment Analysis Dissertation [See note a above]	30
BEFM027	Dissertation [See note a above]	30
BEAM079	Coding Analytics for Accounting and Finance [See note a above]	30
BEAM101	Sustainable Finance Project [See note a above]	30

Optional modules

Code	Module	Credits
MSc Finance and Data Science opt modules 24/25		
BEEM061	Fundamentals of Financial Technology	15
BEAM031	Financial Instruments	15
BEAM032	Investment Analysis 1	15
BEAM102	Financial Institutions Risk Management	15
BEAM103	Climate Finance and Investments	15
SOCM033	Data Governance and Ethics	15
BEMM129	Digital Business Models	15
BEEM161	Smart Contracts	15
BEAM046	Financial Modelling	15
BEAM033	Banking and Financial Services	15
BEAM036	Domestic and International Portfolio Management	15
BEAM038	Investment Analysis 2	15
BEAM042	International Financial Management	15
BEAM052	Corporate Governance and Finance	15

BEAM053	Mergers, Management Buyouts and Other Corporate Reorganisations	15
BEAM065	Bank Management	15
BEAM104	Sustainable and Responsible Finance	15
MTHM507	Communicating Data Science	15
MTHM517	Advanced Topics in Statistics	15

MSc Social Data Science

Location: Exeter

Start: October

Duration: 1 year

Tuition Fees: £24,300

English requirement: UKVI IELTS 6.5 (with no less than 6.0)

Course content

In addition to the 120 credits of compulsory modules, you must take 60 credits of optional modules from Sociology, Philosophy and Anthropology (SPA) and Politics. Suggested relevant modules are listed below, or you may take any postgraduate optional modules from the department of Social and Political Sciences, Philosophy, and Anthropology. View option modules for SPA and for Politics.

Compulsory modules

Code	Module	Credits
SSIM915	Statistical Modelling	15
SSIM916	Machine learning for social data science	15
SSIM917	Programming for Social Data Science	15
SSIM918	Data Visualisation	15
SSIM907	Policy Analytics: Dissertation or Research Consultancy Project	60

Optional modules

Code	Module	Credits
MSc Applied Social Data Science 2023-24		
SOCM033	Data Governance and Ethics	15
SSIM913	Longitudinal Data Analysis	15
SPAM001	Causal Inference and Evidence Based Policy Making	15
POLM897	Surveys and Experiments: Design, Implementation and Analysis	15

MSc Security Data Science

Location: Exeter

Start: October

Duration: 1 year

Tuition Fees: £24,300

English requirement: UKVI IELTS 6.5 (with no less than 5.5)

Course content

Compulsory modules

Code	Module	Credits
SPAM002	Security, Artificial Intelligence and Emerging Technologies	30
SPAM003	Computational Social Science	30
SSIM907	Policy Analytics: Dissertation or Research Consultancy Project	60

Optional modules

Code	Module	Credits
SOCM033	Data Governance and Ethics	15
SSIM917	Programming for Social Data Science	15
SOCM034	Social Data Science and Policy Analytics	30
SSIM916	Machine learning for social data science	15
POLM084	Conflict, Security and Development in World Politics	30
POLM158	Digital Politics and Policy	30
SSIM918	Data Visualisation	15
POLM060	Global Security	30
POLM233	Applied Strategy in the Contemporary World	30

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Glasgow Caledonian University (GCU)

www.gcu.ac.uk

MSc Applied Data Science in Engineering

Location: Glasgow, Scotland

Start: September, January

Duration: 1 year (September), 16 month (January)

Tuition Fees: £18,800

English requirement: UKVI IELTS 6.0 (no less than 5.5 in any bands)

Module

Trimester A:

- IOT Framework Informatics
- Software Development for Data Science
- Data Capture
- System Health Management

Trimester B:

- Data Visualisation
- Digital Twins
- Professional Practice
- Predictive Maintenance

MSc Big Data Technologies

Location: Glasgow, Scotland

Start: September, January

Duration: 1 year (September), 16 month (January)

Tuition Fees: £18,800

English requirement: UKVI IELTS 6.0 (no less than 5.5 in any bands)

Module

Trimester A

- Big Data Landscape
- Software Development for Data Science
- Artificial Intelligence and Machine Learning
- Data Ethics and Research Methods

Trimester B

- Cloud Computing and Web Services
- Internet of Things
- Big Data Platforms
- Data Visualisation.

Trimester C

- Dissertation

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University of Greenwich

www.gre.ac.uk

MSc Data Science

Location: London

Start: September, January

Duration: 1 year

Tuition Fees: £16,300

English requirement: UKVI IELTS 6.5 (no less than 5.5 in any bands)

Modules:

Students are required to study the following compulsory modules.

- MSc Project (60 credits)
- Big Data (15 credits)
- Data Visualisation (15 credits)
- Machine Learning (15 credits)
- Applied Machine Learning (15 credits)
- Programming Fundamentals for Data Science (15 credits)

Essential Professional and Academic Skills for Masters Students

- Statistical Methods for Time Series Analysis (15 credits)

Students are required to choose 15 credits from this list of options.

- Clouds, Grids and Virtualisation (15 credits)
- Blockchain for FinTech Applications (15 credits)
- Students are required to choose 15 credits from this list of options.
- Technologies for Anti-Money Laundering and Financial Crime (15 credits)
- Graph and Modern Databases (15 credits)

MSc Big Data and Business Intelligence

Location: London

Start: September, January

Duration: 1 year

Tuition Fees: £17,275

English requirement: UKVI IELTS 6.5 (no less than 5.5 in any bands)

Modules:

Students are required to study the following compulsory modules.

- MSc Project (60 credits)
- Big Data (15 credits)
- Advanced Database Technologies (15 credits)
- Applied Machine Learning (15 credits)
- Programming Fundamentals for Data Science (15 credits)
- Graph and Modern Databases (15 credits)
- Data Warehousing and Business Intelligence (15 credits)

Students are required to choose 15 credits from this list of options.

- Software Tools and Techniques (15 credits)
- User Centred Web Engineering (15 credits)
- Clouds, Grids and Virtualisation (15 credits)

Students are required to choose 15 credits from this list of options.

- Systems Modelling (15 credits)
- Data Visualisation (15 credits)

MSc Statistical Data Science

Location: Canterbury

Start: September

Duration: 1 year

Tuition Fees: £22,700

English requirement: UKVI IELTS 6.0 (with a minimum of 5.5 in each component)

Work experience: 3 years

Module

Stage 1

Compulsory modules currently include the following

- Probability and Statistics for Data Science
- Statistical Data Modelling
- Bayesian Statistics with Stan and Python
- Data Science with R
- Statistical Learning for Data Scientists
- Statistical Consultancy and Data Presentation
- Project

Optional modules may include the following

- Deep Learning with Python
- Data Collection and Analytics

Stage 1

Compulsory modules currently include the following

- Project

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MSc Data Science and Analytics

Location: Leeds

Start: September

Duration: 12 months

Tuition Fees: £31,750

English requirement: UKVI IELTS 6.5 (no less than 6.0 in any bands)

Modules

Year 1 compulsory modules

Module Name	Credits
Data Science	15
Learning Skills through Case Studies	15
Dissertation in Data Science and Analytics	60

Year 1 optional modules (selection of typical options shown below)

Module Name	Credits
Information Visualization	10
Knowledge Representation and Reasoning	15
Machine Learning	15
Deep Learning	15
Programming for Data Science	15
Data Mining and Text Analytics	15
Geographic Data Visualisation & Analysis	15
Geodemographics and Neighbourhood Analysis	15
Big Data and Consumer Analytics	15
Predictive Analytics	15
Applied GIS and Retail Modelling	15
Business Analytics and Decision Science	15

Forecasting and Advanced Business Analytics	15
Machine Learning in Practice	15
Mixed Models	10
Linear Regression and Robustness	15
Statistical Theory	15
Time Series	10
Generalised Linear Models	10
Mixed Models with Medical Applications	15
Linear Regression, Robustness and Smoothing	20
Statistical Theory and Methods	15
Statistical Learning	15
Multivariate Methods	15
Multivariate and Cluster Analysis	15
Time Series and Spectral Analysis	15
Generalised Linear and Additive Models	15
Statistical Computing	15
Transport Data Science	15

MSc Urban Data Science and Analytics

Location: Leeds

Start: September

Duration: 12 months

Tuition Fees: £30,750

English requirement: UKVI IELTS 6.5 (no less than 6.0 in any bands)

Modules

Year 1 compulsory modules

Module Name	Credits
Programming for Data Science	15
Analysing Cities	15
Data Science for Urban Systems	15
Creative Coding for Urban Problems	15
Analytics for Urban Policy	30
Urban Data Science Project	60

Year 1 optional modules (selection of typical options shown below)

Module Name	Credits
Geographic Data Visualisation & Analysis	15
Geodemographics and Neighbourhood Analysis	15
Transport Data Collection and Analysis	15
Transport Data Science	15

MSc Environmental Data Science and Analytics

Location: Leeds

Start: September

Duration: 12 months

Tuition Fees: £30,750

English requirement: UKVI IELTS 6.5 (no less than 6.0 in any bands)

Modules

Compulsory modules

- Programming for Data Science – 15 credits
- Data Science for Practical Applications – 15 credits
- Creative Coding for Real World Problems – 15 credits
- Data to Insights in Multiple Environments – 30 credits
- Machine Learning for Environmental Data – 15 credits
- Environmental Data Science Project – 60 credits

Optional modules

- Environmental Assessment – 15 credits
- GIS and Environment – 15 credits
- Environmental Data Visualisation and Analysis – 15 credits
- Digital Image Processing for Environmental Remote Sensing – 15 credits

- Web-based GIS – 15 credits

MSc Health Informatics with Data Science

Location: Leeds

Start: September

Duration: 12 months

Tuition Fees: £27,500

English requirement: UKVI IELTS 7.0 (no less than 6.5 in any bands)

Modules

Year 1 compulsory modules

Module Name	Credits
Statistics and Modelling for Health Sciences	15
Foundations of Health Data	15
Human Factors in Health Data Science	15
Informatics and Data Science in Health Care and Research	15
Law, Ethics and Governance for Health Data Science	15
Artificial Intelligence and Machine Learning in Health	15
MSc Health Informatics Project	60

MSc Precision Medicine: Genomic Data Science

Location: Leeds

Start: September

Duration: 12 months

Tuition Fees: £31,000

English requirement: UKVI IELTS 6.5 (no less than 6.0 in any bands)

Modules

Year 1 compulsory modules

Module Name	Credits
High-Throughput Technologies	15
Biopharmaceutical Development: Clinical	15
Analytical Skills in Precision Medicine	15
Research Project: Genomics and Analytics	60
Introduction to Genetic Epidemiology	15
Statistical Theory and Methods	15
Statistical Learning	15
Big Data and Rare and Common Disorders	15
Cancer Drug Development	15

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Liverpool John Moores University

www.ljmu.ac.uk

MSc Data Science

Location: Liverpool

Start: September

Duration: 1 year

Tuition Fees: £18,250

English requirement: UKVI IELTS 6.0 (no less than 5.5 in any bands)

Course content

Core modules

- Introduction to Data Analytics - 20 credits
- Statistical Methods in R - 20 credits
- Big Data Computing - 20 credits
- Research Methods in Data Science - 20 credits
- Machine Learning and Data Mining - 20 credits
- Efficient algorithms for complex data sets - 20 credits
- Data Science Project - 60 credits

Optional Modules

- Work Based Project - 60 credits

MSc Data Science and Artificial Intelligence

Location: Liverpool

Start: September

Duration: 1 year

Tuition Fees: £28,800

English requirement: UKVI IELTS 6.5 (no less than 5.5 in any component)

Module details:

Semester One

Compulsory Modules

- Research Methods in Computer Science (COMP516)
- Programming Fundamentals (COMP517)
- Maths and Statistics for AI and Data Science (COMP533)

Optional Modules

- Database and Information Systems (COMP518)
- Big Data and Society B: Foundations, Politics, and Policy (COMM752)

Semester Two

Compulsory Modules

- Data Mining and Visualisation (COMP527)
- Applied Artificial Intelligence (COMP534)

Optional Modules

- Web Programming (COMP519)
- Artificial Intelligence and Communication B (COMM718)
- Machine Learning and Bioinspired Optimisation (COMP532)
- MSc Group Project (COMP530)
- Big Data and Society D: Algorithms and Platforms (COMM754)
- Computational Intelligence (COMP575)

Final Project

Compulsory modules

- MSc Project (COMP702)

MSc Data Science for Economics

Location: Liverpool

Start: September

Duration: 1 year

Tuition Fees: £25,000

English requirement: UKVI IELTS 6.5 (no less than 6.0 in any component)

Module details:

Semester One

Compulsory Modules

- Econometric and Statistical Methods (ECON814)
- Macroeconomic Analysis (ECON905)
- Microeconomic Analysis (ECON915)

Semester Two

Compulsory Modules

- Applied Macroeconometrics (ECON920)
- Applied Microeconometrics (ECON826)
- Machine Learning and Big Data Econometrics (ECON701)

Optional Modules

- Money and Banking (ECON916)
- Current Topics in Economics (ECON827)
- Labour Economics (ECON702)
- Public Economics (ECON703)

Final Project

Compulsory modules

- Dissertation (ECON912)

MSc Data Science and Communication

Location: Liverpool

Start: September

Duration: 1 year

Tuition Fees: £22,400

English requirement: UKVI IELTS 6.5 (no less than 6.5 in writing, no other skill less than 6.0)

Module details:

Semester One

Compulsory modules

- Introduction to Data Science A (COMM741)
- Introduction to Computational Social Science Methods (COMM742)

Optional Modules

- Big Data and Society B: Foundations, Politics, and Policy (COMM752)
- Database and Information Systems (COMP518)
- Fundamentals of Strategic Communication B (COMM517)
- Media and Politics: Theories and Cases B (COMM765)
- Screen Cultures B (COMM744)
- Understanding Media Change B (COMM757)

Semester Two

Compulsory Modules

- Artificial Intelligence and Communication A (COMM766)

Optional Modules

- Argumentation in Media and Strategic Communication (COMM520)
- Big Data and Society D: Algorithms and Platforms (COMM754)
- Branding Strategy and Communication (COMM521)
- Data Visualisation (COMM740)
- Digital Media Audiences (COMM739)
- Global Journalism and Politics (COMM748)
- Media Practices and Everyday Life B (COMM759)
- Redefining Television (COMM750)
- Screen Industries B (COMM746)
- Media and Politics: Economy and Society B (COMM763)

Final Project

Compulsory modules

- Dissertation (COMM716)

MSc Health Data Science

Location: Liverpool

Start: September

Duration: 1 year

Tuition Fees: £27,200

English requirement: UKVI IELTS 7.0 (with no less than 6.5 in any component)

Module details:

Semester One

Compulsory Modules

- Introduction to Health Research, Data and Team Science (DASC501)
- Introduction to Statistics (DASC502)
- Using Routine Health Data for Applied Epidemiology (DASC503)
- Dissertation (DASC500)

Optional Modules

- Database and Information Systems (COMP518)
- Qualitative Research Methods (ENVS441)

Semester Two

Compulsory Modules

- 21st Century Evaluation of Healthcare Interventions (DASC504)
- Actionable Analytics (DASC505)
- Dissertation (DASC500)

Optional Modules

- Advanced Biostatistics I – Joint Longitudinal & Survival Data Analysis and Prediction Modelling (DASC506)
- Advanced Biostatistics II – Analysis Methods for Complex Data Structures (DASC507)
- Advanced Biostatistics III – Statistical Genetics and Pharmacogenetics (DASC508)
- Computational Intelligence (COMP575)
- Data Mining and Visualisation (COMP527)
- Machine Learning and Bioinspired Optimisation (COMP532)

Final Project

Compulsory modules

- Dissertation (DASC500)

MSc Geographic Data Science

Location: Liverpool

Start: September

Duration: 1 year

Tuition Fees: £26,400

English requirement: UKVI IELTS 6.5 (no less than 5.5 in component scores)

Module details:

Semester One

Compulsory modules

- Qualitative Research Methods (ENVS441)
- Social Survey Analysis (ENVS450)
- Geographic Data Science (ENVS563)
- Applied Geographic Information Science (ENVS609)

Optional Modules

- Database and Information Systems (COMP518)
- Big Data Analytics (COMP529)

Semester Two

Compulsory Modules

- Spatial Modelling for Data Scientists (ENVS453)
- Theorising Human Geography (ENVS416)
- Web Mapping and Geovisualisation (ENVS456)

Optional Modules

- Computational Intelligence (COMP575)
- Data Science Studio (ENVS615)
- Population Science (ENVS418)
- Social and Spatial inequalities (ENVS357)

Final Project

Compulsory modules

- Dissertation - Geographic Data Science (ENVS492)

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University of Manchester

www.manchester.ac.uk

MSc Data Science (Applied Urban Analytics)

Location: Manchester

Start: September

Duration: 1 year

Tuition Fees: £32,000

Application Fees: £60 (non-refund)

English requirement: UKVI IELTS 7.0 (no other element below 6.5)

Course unit list:

The course unit details given below are subject to change, and are the latest example of the curriculum available on this course of study.

Title	Code	Credit rating	Mandatory/optional
Statistics and Machine Learning 1: Statistical Foundations	DATA70121	15	Mandatory
Understanding Databases	DATA70141	15	Mandatory
Applying Data Science	DATA70202	15	Mandatory
Understanding Data and their Environment	DATA71011	15	Mandatory
Extended Research Project	DATA72000	60	Mandatory

Title	Code	Credit rating	Mandatory/optional
Land and Development	PLAN60102	15	Optional
Real Estate Investment and Finance	PLAN60191	15	Optional
Advanced Real Estate Finance	PLAN60292	15	Optional
Property Valuation	PLAN60331	15	Optional
Digital Planning - Spatial and Policy Analysis	PLAN60761	15	Optional
Neighbourhood Planning Project	PLAN60812	15	Optional
Digital Planning - Decision Support Systems	PLAN60962	15	Optional

MSc Data Science (Business and Management)

Location: Manchester

Start: September

Duration: 1 year

Tuition Fees: £32,000

Application Fees: £60 (non-refund)

English requirement: UKVI IELTS 7.0 (no other element below 6.5)

Course unit list:

The course unit details given below are subject to change, and are the latest example of the curriculum available on this course of study.

Title	Code	Credit rating	Mandatory/optional
Statistics and Machine Learning 1: Statistical Foundations	DATA70121	15	Mandatory
Understanding Databases	DATA70141	15	Mandatory
Applying Data Science	DATA70202	15	Mandatory
Understanding Data and their Environment	DATA71011	15	Mandatory
Extended Research Project	DATA72000	60	Mandatory
Mathematical Programming and Optimisation	BMAN60101	15	Optional
Current Issues in Empirical Finance	BMAN70162	15	Optional
Innovation Management	BMAN71471	15	Optional
Knowledge Management and Digital Strategy	BMAN71652	15	Optional
Tools and Methods for Innovation Analysis	BMAN71751	15	Optional
Simulation & Risk Analysis	BMAN73942	15	Optional
Financial Data Analytics & AI in Finance	BMAN74222	15	Optional
Business Creation and Development	MCEL60032	15	Optional
Developing Enterprising Individuals	MCEL60142	15	Optional

MSc Data Science (Computer Science Data Informatics)

Location: Manchester

Start: September

Duration: 1 year

Tuition Fees: £32,000

Application Fees: £60 (non-refund)

English requirement: UKVI IELTS 7.0 (no other element below 6.5)

Course unit list:

The course unit details given below are subject to change, and are the latest example of the curriculum available on this course of study.

Title	Code	Credit rating	Mandatory/optional
Statistics and Machine Learning 1: Statistical Foundations	DATA70121	15	Mandatory
Understanding Databases	DATA70141	15	Mandatory
Applying Data Science	DATA70202	15	Mandatory
Understanding Data and their Environment	DATA71011	15	Mandatory
Extended Research Project	DATA72000	60	Mandatory
Principles of Digital Biology	COMP60532	15	Optional
Introduction to Health Informatics	COMP60542	15	Optional
Data Engineering	COMP60711	15	Optional
Text Mining	COMP61332	15	Optional
Cognitive Robotics and Computer Vision	COMP61342	15	Optional
Querying Data on the Web	COMP62421	15	Optional

MSc Data Science (Environmental Analytics)

Location: Manchester

Start: September

Duration: 1 year

Tuition Fees: £32,000

Application Fees: £60 (non-refund)

English requirement: UKVI IELTS 7.0 (no other element below 6.5)

Course unit list:

The course unit details given below are subject to change, and are the latest example of the curriculum available on this course of study.

Title	Code	Credit rating	Mandatory/optional
Statistics and Machine Learning 1: Statistical Foundations	DATA70121	15	Mandatory
Understanding Databases	DATA70141	15	Mandatory
Applying Data Science	DATA70202	15	Mandatory
Understanding Data and their Environment	DATA71011	15	Mandatory
Extended Research Project	DATA72000	60	Mandatory
Measuring and Predicting 2	EART60071	15	Optional
Computational Subsurface Geoscience	EART60152	15	Optional
Key Interpretation Skills	EART60381	15	Optional
Earth and Environmental Data Science	EART60702	15	Optional
Environmental Monitoring and Modelling	EART62012	15	Optional
Pollution Management in Practice 2	EART63012	15	Optional
Digital Terrain Analysis	GEOG60412	15	Optional
Environmental Remote Sensing	GEOG60941	15	Optional

Title	Code	Credit rating	Mandatory/optional
GIS and Environmental Applications	GEOG60951	15	Optional
Fundamentals of Synthetic Aperture Radar (SAR) applied to Environmental Monitoring	GEOG70632	15	Optional
Spatial Ecology	GEOG71922	15	Optional
Climate, Environment and Development	MGDI60552	15	Optional
Neighbourhood Planning Project	PLAN60812	15	Optional

MSc Data Science (Mathematics)

Location: Manchester

Start: September

Duration: 1 year

Tuition Fees: £32,000

Application Fees: £60 (non-refund)

English requirement: UKVI IELTS 7.0 (no other element below 6.5)

Course unit list:

The course unit details given below are subject to change, and are the latest example of the curriculum available on this course of study.

Title	Code	Credit rating	Mandatory/optional
Statistics and Machine Learning 1: Statistical Foundations	DATA70121	15	Mandatory
Understanding Databases	DATA70141	15	Mandatory
Applying Data Science	DATA70202	15	Mandatory
Understanding Data and their Environment	DATA71011	15	Mandatory
Extended Research Project	DATA72000	60	Mandatory
Computation and Complexity	MATH63011	15	Optional
Introduction to Uncertainty Quantification	MATH64071	15	Optional
Advanced Uncertainty Quantification	MATH64082	15	Optional
Linear Models with Nonparametric Regression	MATH68011	15	Optional
Time Series Analysis and Forecasting in Finance	MATH68032	15	Optional
Generalised Linear Models and Survival Analysis	MATH68052	15	Optional
Multivariate Statistics	MATH68061	15	Optional

MSc Data Science (Social Analytics)

Location: Manchester

Start: September

Duration: 1 year

Tuition Fees: £32,000

Application Fees: £60 (non-refund)

English requirement: UKVI IELTS 7.0 (no other element below 6.5)

Course unit list:

The course unit details given below are subject to change, and are the latest example of the curriculum available on this course of study.

Title	Code	Credit rating	Mandatory/optional
Statistics and Machine Learning 1: Statistical Foundations	DATA70121	15	Mandatory
Understanding Databases	DATA70141	15	Mandatory
Applying Data Science	DATA70202	15	Mandatory
Understanding Data and their Environment	DATA71011	15	Mandatory
Extended Research Project	DATA72000	60	Mandatory
Topological Data Analysis	DATA70302	15	Optional
Digital Planning - Spatial and Policy Analysis	PLAN60761	15	Optional
Survey Research Methods	SOST60421	15	Optional
Longitudinal Data Analysis	SOST70022	15	Optional
Complex Survey Designs and Analysis	SOST70032	15	Optional
Structural Equation and Latent Variable Modelling	SOST70042	15	Optional
Demographic Forecasting	SOST70102	15	Optional
Quantitative Evaluation of Policies, Interventions and Experiments.	SOST70172	15	Optional
Statistical Models for Social Networks	SOST71032	15	Optional

MSc Health Data Science

Location: Manchester

Start: September

Duration: 1 year

Tuition Fees: £31,000

Application Fees: £60 (non-refund)

English requirement: UKVI IELTS 6.5 (no other element below 6.5)

Course unit list:

The course unit details given below are subject to change, and are the latest example of the curriculum available on this course of study.

Title	Code	Credit rating	Mandatory/optional
Principles of Digital Biology	COMP60532	15	Mandatory
Modern Information Engineering	IIDS61311	15	Mandatory
Fundamental Mathematics & Statistics for Health Data	IIDS67631	15	Mandatory
Introduction to Health Data Science	IIDS67681	15	Mandatory
Principles of Digital Biology	COMP60532	15	Optional
Introduction to Health Informatics	COMP60542	15	Optional
Decision Support Systems	IIDS61402	15	Optional
Mathematical Computing for Medical Imaging	IIDS67462	15	Optional
Tutorials in Advanced Statistics	IIDS67612	15	Optional
Machine Learning and Advanced Data Methods	IIDS67682	15	Optional
Design and Analysis of Randomised Controlled Trials	IIDS68112	15	Optional
Multi-omics for Healthcare	IIDS68122	15	Optional

MSc Economics and Data Science

Location: Manchester

Start: September

Duration: 1 year

Tuition Fees: £31,000

Application Fees: £60 (non-refund)

English requirement: UKVI IELTS 7.0 (including 7 in writing with no further component score below 6.5)

Course unit list:

Core modules

Subject to approval, core modules may include:

- Microeconomic Theory (15 credits)
- Macroeconomic Theory (15 credits)
- Econometric Methods (15 credits)
- Data Science & Machine Learning 1 (15 credits)
- Data Science & Machine Learning 2 (15 credits)
- Skills for Data Scientists (30 credits)

Optional modules

Subject to approval, optional 15-credit modules may include:

- Financial Econometrics
- Applied Macroeconometrics
- Microeconometrics
- Healthcare Economics
- Economics of Environmental Policy
- Labour Economics

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Middlesex University

www.mdx.ac.uk

MSc Data Science

Location: London

Start: September, January

Duration: 1 year

Tuition Fees: £17,300

English requirement: UKVI IELTS 6.5 (no less than 6.0 in any bands)

Modules

- Modelling, Regression and Machine Learning (30 credits) - Compulsory
- Visual Data Analysis (30 credits) - Compulsory
- Applied Data Analytics: Tools, Practical Big Data Handling, Cloud Distribution (30 credits) - Compulsory
- Legal, Ethical and Security Aspects of Data Management (30 credits) - Compulsory
- Individual Data Science Project (60 credits) - Compulsory

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Newcastle University

www.ncl.ac.uk

MSc Data Science

Location: Newcastle

Start: September

Duration: 1 year

Tuition Fees: £30,600

English requirement: UKVI IELTS 6.5 (with 6.5 in Writing and 6.0 in any bands)

Modules

Compulsory Modules	Credits
Data Visualization	10
Data Management and Exploratory Data Analysis	10
Data Science in the Wild	10
Group Project in Data Science	10
Machine Learning with Project	10

Project and Dissertation in Data Science	80
Statistical Foundations of Data Science	10
Statistical Learning for Data Science	10

If you have permission from the Degree Programme Director, you can swap Engineering for AI or Bayesian Data Analysis to take one elective module from the following list:

- Complex Data Visualization
- Deep Learning
- Data and Truth

Optional Modules	Credits
Engineering for AI	10
Image Informatics	10
Cloud Computing with Project	10
Complex Data Visualization	10
Deep Learning	10
Bayesian Data Analysis	10

MSc Data Science (with specialization in Artificial Intelligence)

Location: Newcastle

Start: September

Duration: 1 year

Tuition Fees: £30,600

English requirement: UKVI IELTS 6.5 (with 5.5 in any bands)

Modules

Compulsory Modules	Credits
Engineering for AI	10
Data Visualization	10
Data Management and Exploratory Data Analysis	10
Data Science in the Wild	10
Group Project in Data Science	10
Machine Learning with Project	10
Deep Learning	10
Project and Dissertation in Data Science	80
Statistical Foundations of Data Science	10
Statistical Learning for Data Science	10

If you have permission from the Degree Programme Director, you can swap Engineering for AI to take one elective module from the following list:

- Complex Data Visualization
- Data and Truth

Optional Modules	Credits
Image Informatics	10
Cloud Computing with Project	10
Complex Data Visualization	10

MSc Data Science (with specialization in Visualization)

Location: Newcastle

Start: September

Duration: 1 year

Tuition Fees: £30,600

English requirement: UKVI IELTS 6.5 (with 5.5 in any bands)

Modules

Compulsory Modules	Credits
Engineering for AI	10
Data Visualization	10
Data Management and Exploratory Data Analysis	10
Data Science in the Wild	10
Group Project in Data Science	10
Machine Learning with Project	10

Complex Data Visualization	10
Project and Dissertation in Data Science	80
Statistical Foundations of Data Science	10
Statistical Learning for Data Science	10

If you have permission from the Degree Programme Director, you can swap Engineering for AI to take one elective module from the following list:

- Deep Learning
- Data and Truth

Optional Modules	Credits
Image Informatics	10
Cloud Computing with Project	10
Deep Learning	10

MSc Data Science (with specialization in Statistics)

Location: Newcastle

Start: September

Duration: 1 year

Tuition Fees: £30,600

English requirement: UKVI IELTS 6.5 (with 5.5 in any bands)

Modules

Compulsory Modules	Credits
Engineering for AI	10
Computing Foundations of Data Science	10
Data Visualization	10
Data Management and Exploratory Data Analysis	10
Data Science in the Wild	10
Group Project in Data Science	10
Machine Learning with Project	10
Project and Dissertation in Data Science	80
Time Series Data	10
Statistical Learning Methodology	10
Bayesian Methodology	10

MSc Economics and Data Science

Location: Newcastle

Start: September

Duration: 1 year

Tuition Fees: £27,100

English requirement: UKVI IELTS 6.5 (with 6.0 in any bands)

Modules

Compulsory modules

- Microeconomics (20 credits)
- Macroeconomics (20 credits)
- Mathematical Analysis (10 credits)
- Econometrics (10 credits)
- Numerical Methods and Scientific Programming (20 credits)
- Applied Data Science (20 credits)
- Dissertation (60 credits)

Optional modules

You take **one** optional module from the following list.

- Topics in Microeconomics (20 credits)
- Topics in Macroeconomics (20 credits)
- Causal Inference and Applied Microeconometrics (20 credits)
- Applied Time series econometrics (20 credits)
- Experimental Methods in Economics (20 credits)
- Behavioural Economics (20 credits)
- You also take the following not-for-credit module:
- Mathematics Foundations (0 credits)

MSc Data Science

Location: Nottingham

Start: September

Duration: 1 year

Tuition Fees: £28,600

English requirement: UKVI IELTS 6.5 (no less than 6.0 in any bands)

Course content

You will study a total of 180 credits, split across 120 credits of compulsory and optional modules plus a 60-credit individual project.

No computer programming experience is needed. We offer two pathways for this course depending on your background. You will be guided to choose an appropriate set of modules based on your prior computer science and mathematics experience.

Core module for all students

- Research Project - 60 credits

Students with a degree in Computer Science or equivalent are required to obtain between 40 and 80 credits from the following list of Computer Science modules:

- Machine Learning - 20 credits
- Advanced Algorithms and Data Structures - 10 credits
- Computer Vision - 20 credits
- Simulation and Optimisation for Decision Support - 20 credits
- Data Science with Machine Learning - 20 credits
- Linear and Discrete Optimisation - 20 credits
- Handling Uncertainty with Fuzzy Sets and Fuzzy Systems - 20 credits
- Fundamentals of Information Visualisation - 10 credits
- Big Data Learning and Technologies - 20 credits
- Information Visualisation Project - 10 credits
- Designing Intelligent Agents - 20 credits

Advanced Algorithms and Data Structures can be taken as a 20 credit module that includes an individual project, or as a 10 credit module without an individual project.

Students without a background in Computer Science must start with:

- Programming - 20 credits

And are then required to obtain between 20 and 60 credits from the remaining list of Computer Science modules:

- Data Science with Machine Learning - 20 credits
- Computer Vision - 20 credits
- Machine Learning - 20 credits
- Simulation and Optimisation for Decision Support - 20 credits
- Databases, Interfaces and Software Design Principles - 20 credits
- Handling Uncertainty with Fuzzy Sets and Fuzzy Systems - 20 credits
- Fundamentals of Information Visualisation - 10 credits
- Big Data Learning and Technologies - 20 credits
- Information Visualisation Project - 10 credits
- Designing Intelligent Agents - 20 credits

Mathematical Sciences modules

Students without a background in Mathematical Sciences must start with:

- Applied Statistics and Probability - 20 credits

Students without a degree in Mathematical Sciences or equivalent are required to obtain 20 to 60 credits from the following list of Mathematical Science modules:

- Applied Statistical Modelling - 20 credits
- Time Series and Forecasting - 20 credits
- Applied Multivariate Statistics - 20 credits

Students with a degree in Mathematical Sciences or equivalent are required to obtain 40 to 80 credits from the following list of Mathematical Science modules:

- Applied Multivariate Statistics - 20 credits
- Applied Statistical Modelling - 20 credits
- Computational Statistics - 20 credits

- Time Series and Forecasting - 20 credits
- Statistical Machine Learning - 20 credits
- Classical and Bayesian Inference - 20 credits
- Machine Learning and Inference for Differential Equations - 20 credits

MSc Economics and Data Science

Location: Nottingham

Start: September

Duration: 1 year

Tuition Fees: £26,250

English requirement: UKVI IELTS 6.5 (no less than 6.0 in any bands)

Course content

Core modules

- Big Data Economics
- Machine Learning for Economics
- Econometric Theory
- Economic Data Analysis
- Economic Research Methodology

One from:

- Microeconomic Theory
- Macroeconomic Theory

Optional modules

Three from:

- Advanced Macroeconomic Methods
- Advanced Microeconomic Theory
- Applied Behavioural Economics
- Applied Microeconometrics
- Behavioural Economic Theory
- Development Policy Analysis
- Development Microeconomics
- Financial and Macroeconometrics
- Economics of Corporate Finance
- Economics of Household Finance
- Experimental Methods in Economics
- International Macroeconomics
- International Trade Theory
- Monetary Theory and Practice
- Time Series Econometrics
- Trade Analysis and Policy

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Nottingham Trent University

www.ntu.ac.uk

MSc Data Science

Location: Nottingham

Start: September

Duration: 1 year

Tuition Fees: £19,500

English requirement: UKVI IELTS 6.5 (with minimum of 5.5 in each Component)

Modules

- Fundamentals of Big Data and Infrastructure
- Software Engineering 1
- Statistical Data Analysis and Visualisation
- Deriving Business Value from Data Analytics
- Applied AI and Data Mining
- Research Methods
- Major Projects

#####

MSc Data Science

Location: Newcastle

Start: September (12 months), January (16 months)

Duration: 1 year

Tuition Fees: £19,750

English requirement: UKVI IELTS 6.5 (no less than 5.5 in any bands)

Modules

- KF7028 - Research Methods and Project Management (Core,20 Credits)
- KF7029 - MSc Computer Science & Digital Technologies Project (Core,60 Credits)
- KF7032 - Big Data and Cloud Computing (Core,20 Credits)
- KL7010 - Principles of Data Science (Core,20 Credits)
- KL7011 - Advanced Databases (Core,20 Credits)
- KL7012 - Statistical Programming (Core,20 Credits)
- KV7001 - Academic Language Skills for Computer and Information Sciences (Core – for International and EU students only,0 Credits)
- KV7006 - Machine Learning (Core,20 Credits)

MSc Big Data and Data Science Technology

Location: London Campus

Start: September, January, May

Duration: 1 year

Tuition Fees: £19,000

English requirement: UKVI IELTS 6.5 (no less than 5.5 in any bands)

Modules

All modules on this course are core and 20 credits unless otherwise stated

- Information Governance and Cyber Security
- Leadership in a Digital Age
- Applied Data Science
- Academic Language Skills for Computer and Information Sciences (0 credits)
- Research Methods for Professional Practice
- Big Data Analytics
- Machine Learning on Cloud
- Computing and Digital Technologies Project (60 credits)

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MSc Data Science and Advanced Computing

Location: Reading

Start: September

Duration: 12 months

Tuition Fees: £26,950

English requirement: UKVI IELTS 6.5 (no less than 5.5 in any bands)

Course structure

Compulsory modules

- Applied Data Science with Python
- Artificial Intelligence and Machine Learning
- Research Project
- Big Data and Cloud Computing
- Data Science Algorithms and Tools
- Data Security and Ethics
- Mathematics and Statistics for Data Science

MSc Digital Business and Data Analytics

Location: Reading

Start: September

Duration: 12 months

Tuition Fees: £25,000

English requirement: UKVI IELTS 6.5 (no less than 5.5 in any bands)

Course structure

The Henley pre-study course suite

Exclusively available to Henley Business School offer holders, the Pre-study course suite comprises of innovative short courses designed and developed by Henley faculty on the Futurelearn platform, one of the leading online learning platforms.

- Future of Work: Coding with Python for Business & Finance (N/A)
- Study skills for success (N/A)

Semester 1

Compulsory modules

- Business Data Analytics (INMR95) – 20 (10 ECTS credits)
- Business Domain and Requirements Analysis (INMR66) – 20 (10 ECTS credits)
- Business Informatics (INMR91) – 20 (10 ECTS credits)
- Career and Professional Development (MMM132) – 0 (0 ECTS credits)
- Business Intelligence and Data Mining (INMR77) – 20 (10 ECTS credits)

Semester 2

Students must choose optional modules up to the value of 60 credits across semester 2

Optional modules

- IT Project Management (INMR65) – 20 (10 ECTS credits)
- Digital Health and Data Analytics (INMR96) – 20 (10 ECTS credits)
- Organisational Dynamics: Systems Thinking in the Digital Age (INMR98) – 20 (10 ECTS credits)
- AI and Data Analytics in Business (INMR81) – 20 (10 ECTS credits)
- Marketing Communications in Virtual World (MMM183) – 20 (10 ECTS credits)

Summer term

Dissertation is taken over semester 2 and summer term and is 40 credits.

Compulsory modules

- MSc Dissertation (INMR99) – 40 (20 ECTS credits)

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Royal Holloway University of London

www.royalholloway.ac.uk

MSc Data Science and Analytics

Location: London

Start: September

Duration: 1 year

Tuition Fees: £28,500

Requirement: IELTS 6.5 (no subscore lower than 5.5)

Course structure

Core Modules

- Data Analysis
- Computation with Data

Databases

- Large-scale Data Storage and Processing
- Ethics in Advanced Computing and Artificial Intelligence
- Individual Project

Optional Modules

There are a number of optional course modules available during your degree studies. The following is a selection of optional course modules that are likely to be available. Please note that although the College will keep changes to a minimum, new modules may be offered or existing modules may be withdrawn, for example, in response to a change in staff. Applicants will be informed if any significant changes need to be made.

- | | |
|--|---|
| <ul style="list-style-type: none">• Machine Learning• Methods of Computational Finance• Software Verification• Advanced Data Communications• Digital Audio and Applications• Intelligent Agents and Multi-Agent Systems | <ul style="list-style-type: none">• Microeconometrics• Decision Theory and Behaviour• The Economics of Banking• Private Equity• Inference• Applied Probability |
|--|---|

<ul style="list-style-type: none"> • Semantic Web • Internet and Web Technologies • Online Machine Learning • Service-oriented Computing Technology and Management • Business Intelligence Systems, Infrastructures and Technologies • Computational Optimisation • Methods of Bioinformatics • Visualisation and Exploratory Analysis • Macro and financial econometrics • Investment and Portfolio Management • Fixed Income Securities and Derivatives 	<ul style="list-style-type: none"> • Security Technologies • Cryptography and Security Mechanisms • Network Security • Computer Security (Operating Systems) • Security Management and Methods • Smart Cards, RFIDs and Embedded Systems Security • Digital Forensics • Security Testing • Software Security • Database Security • Cybersecurity to Critical Infrastructure Security
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University of Sunderland

www.sunderland.ac.uk

MSc Data Science

Location: Sunderland Campus

Start: September, January

Duration: 1 year

Tuition Fees: £15,000

Scholarship: £900

English requirement: UKVI IELTS 6.0 (no less than 5.5 in any bands)

Modules

Modules on this course include:

- Data Science Fundamentals (30 credits)
- Data Science Product Development (30 credits)
- Machine Learning and Data Analytics (30 credits)
- Technology Management for Organisations (30 credits)
- Computing Masters Project (60 credits)

MSc Applied Data Science

Location: Sunderland Campus

Start: October

Duration: 2 years

Tuition Fees: £17,400

Scholarship: £900

English requirement: UKVI IELTS 6.0 (no less than 5.5 in any bands)

Modules

Year 1

Modules on this course include:

- Data Science Fundamentals (30 credits)
- Data Science Product Development (30 credits)
- Machine Learning and Data Analytics (30 credits)
- Technology Management for Organisations (30 credits)

Year 2

Modules include:

- Computing Masters Placement (60 credits)
- Computing Masters Project (60 credits)

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Teesside University

www.tees.ac.uk

MSc Data Science

Location: Middlesbrough

Start: September, January

Duration: 1 year (September), 16 months (January)

Tuition Fees: £17,000

English requirement: UKVI IELTS 6.0

Course structure

Core modules

- Artificial Intelligence Ethics and Applications
- Artificial Intelligence Foundations
- Computing Masters Project
- Intelligent Decision Support Systems
- Machine Learning
- Research Methods
- Statistical Methods for Data Analytics

Advanced practice (2 year full-time MSc only)

- Internship

MSc Artificial Intelligence with Data Analytics

Location: Middlesbrough

Start: September, January

Duration: 1 year (September), 16 months (January)

Tuition Fees: £17,000

English requirement: UKVI IELTS 6.0

Course structure

Core modules

- Artificial Intelligence Ethics and Applications
- Computing Masters Project
- Data Analytics
- Intelligent Decision Support Systems
- Machine Learning
- Research Methods
- Statistical Methods for Data Analytics

Advanced practice (2 year full-time MSc only)

- Internship

MSc Crime Intelligence and Data Analytics

Location: Middlesbrough

Start: September, January

Duration: 1 year (September), 16 months (January)

Tuition Fees: £17,000

English requirement: UKVI IELTS 6.0

Course structure

Core modules

- Advanced Research Project
- Coding for Intelligence Analysts
- Crime Science: Theories, Principles and Intelligence Sources
- Criminal Justice and the Forensic Practitioner
- Cyber Security and Digital Investigation
- Forensic Investigative Strategy
- Managing and Mapping GIS Data

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University of Westminster

www.westminster.ac.uk

MSc Data Science and Analytics

Location: London

Start: September, January

Duration: 1 year

Tuition Fees: £17,000

English requirement: UKVI IELTS 6.5 (with at least 6.5 in writing and no element below 6.0)

Modules

Core modules

- Business Analytics

- Data Mining and Machine Learning
- Big Data Theory and Practice
- MSc Project

Option modules

- Data Visualisation and Dashboarding
- Web and Social Media Analytics
- Data Warehousing and Business Intelligence
- Business Optimisation
- Simulation Modelling
- Data Repositories Principles and Tools

MSc Global Public Health with Data Science

Location: London

Start: September

Duration: 1 year

Tuition Fees: £15,000

English requirement: UKVI IELTS 6.5 (with at least 6.5 in writing and no element below 6.0)

Modules

Core modules

- Health Data Science
- Health Inequalities and Health Promotion
- Infectious Diseases and Public Health
- Non-Communicable Diseases and Epidemiology
- Health Economics
- Postgraduate Research Methods for Health Sciences
- Research Methods II and Research Project for Health

Optional modules

- Global Approaches to Health and Wellbeing
- Policy and Governance for Public Health Nutrition
- Policy and Practice of Social Prescribing and Wellbeing

MA Data, Culture and Society

Location: London

Start: September

Duration: 1 year

Tuition Fees: £17,000

English requirement: UKVI IELTS 6.5 (with at least 6.5 in writing and no element below 6.0)

Modules

Core modules

- Data and Society: Concepts and Applications
- Data System Concepts and Fundamentals
- Data and Society: Research and Methods
- Major Project

Option modules

- Social Media
- Political Economy of Communication
- Data Mining and Machine Learning
- The Politics of Global Complexity
- Legal Aspects of Electronic Commerce
- Artificial Intelligence and Society
- Digital Cultures
- Digital Media and Critical Theory
- Data Visualisation and Dashboarding
- Policies for Digital Convergence

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เอกสารที่ใช้ในการสมัครเรียน คือ

- Transcript
- ใบปริญญาบัตรจบ ป.ตรี (ถ้ามี)
- หนังสือรับรองการจบ ป.ตรี (ถ้ายังไม่ได้รับใบปริญญา)
- หนังสือรับรองว่าจบหลักสูตร Inter. Program มา (ถ้าจบ Inter. Program มา)
- Resume / CV
- Statement of Purpose (SOP) (เขียนว่าทำไมถึงอยากเรียนสาขาวิชานี้ประมาณ 1 หน้ากระดาษ)
- Recommendation Letter จากอาจารย์ / จากที่ทำงาน 2 ท่าน
- ผล UKVI IELTS (ส่งตามที่หลังได้)
- Copy passport

เอกสารที่ใช้ในการสมัครเรียน ถ้าไม่สะดวกที่จะเอาเข้ามาให้พี่ที่ออฟฟิศ น้องสามารถที่จะสแกนแล้วส่งเข้าอีเมลมาให้พี่ได้นะคะที่ leelar@studyoverseas.co.th คะ ถ้าน้องมีคำถามเพิ่มเติมหรือต้องการข้อมูลเพิ่มเติมโทรสอบถามพี่ต่อได้นะคะที่ 081-6449867, 089-6820168 คะ

ขอบคุณคะ
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