5 February 2016



Data Science and Analytics with a Year in Industry; (Taught); (MSc); 2628 September 2016 intake

The purpose of this information sheet is to provide prospective students and applicants with further information about the nature of the degree, in order to help you decide if it is the right choice for you. Should you have any further questions, contact information is provided at the end of the flyer.

Section 1 – degree programme structure

Awarding institution	Royal Holloway, University of London
Accreditation(s) (where applicable)	None
Standard length of degree	2 years full-time
Available part-time	No

The following table summarises the compulsory modules, which are referred to by Royal Holloway as mandatory course units, offered on this degree programme as well as a selection of optional course units that are likely to be available. Please note that although the College will keep changes to a minimum, new units may be offered or existing units may be withdrawn, for example, in response to a change in staff. You will be informed if any significant changes need to be made. You will be informed if any changes need to be made. This programme requires a minimum of 6 students to enable the College to run the course. Should this number not be reached and we are unable to run the programme we will offer an alternative or refund any deposit paid.

Course unit name	Credits	Mandatory	Optional	Notes
				(please see
				below for
				description)
(CS5100) Data Analysis	20	Yes		
(CS ₅ 800) Computation with Data	10	Yes		1
(CS5810) Programming for Data	10	Yes		
Analysis				
(BI5631) Database Systems	10	Yes		1
(CS5234) Large-scale Data	20	Yes		
Storage and Processing				
(CS5822) Individual Project	60	Yes		
Optional courses are chosen to complete each term to a total of 60 credits.				
(CS5920) Machine Learning	10		Yes	2
(CS5930) Methods of	10		Yes	2
Computational Finance				
(CS5450) Software Verification	10		Yes	2
CS5580) Advanced Data	10		Yes	2
Communications				
(CS5220) Fundamentals of	10		Yes	
Digital Sound and Music				
(CS5945) Intelligent Agents and	10		Yes	
Multi-Agent Systems				



5 February 2016

5 February 2010	1		
(CS5945) Semantic Web	10	Yes	
(BI5632) Internet and Web	10	Yes	2
Technologies			
(CS5200) On-line Machine	20	Yes	
Learning			
(BI5499) Service-Oriented	10	Yes	
Computing, Technology and			
Management			
(BI5502) Business Intelligence	10	Yes	5
(CS5504) Business Intelligence	20	Yes	5
Systems, Infrastructures and			
Technologies			
(CS5490) Computational	10	Yes	2
Optimization			
(CS5110) Methods of	10	Yes	2
Bioinformatics			
(CS5250) Visualisation and	10	Yes	2
Exploratory Analysis			
(EC5333) Financial Econometrics	20	Yes	
(EC5321) Investment and	20	Yes	
Portfolio Management			
(EC5340) Fixed Income Securities	20	Yes	
and Derivatives			
(EC5041) Microeconometrics	20	Yes	
(EC5070) Decision Theory and	20	Yes	
Behaviour			
(EC5360) Origins of the Financial	20	Yes	
Crisis			
(EC5370) Private Equity	20	Yes	
(MT5432) Inference	20	Yes	
(MT5433) Topics in Applied	20	Yes	
Statistics			
(MT5436) Applied Probability	20	Yes	
(IY5522) Security Technologies	20	Yes	
(IY5502) Introduction to	20	Yes	
Cryptography			
(IY5511) Network Security	20	Yes	
(IY5512) Computer Security	20	Yes	
(IY5501) Security Management	20	Yes	
(IY5606) Smart Cards, RFIDs and	20	Yes	
Embedded Systems Security			
(IY5609) Digital Forensics	20	Yes	
(IY5610) Security Testing	20	Yes	
(IY5607) Software Security	20	Yes	
(IY5604) Database Security	20	Yes	*
(IY5612) Cyber Security	20	Yes	
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Notes

- (1) Compulsory and available only for students who lack background in the corresponding area.
- (2) Cannot be taken by Royal Holloway graduates who took a similar course.
- (5) BI5502 and CS5504 cannot be taken together due to content overlap.
- (*) Only runs in block mode (16th-20th January 2017)

Section 2 – degree programme costs

H/EU tuition fee 2016/17**	£8,100 (The fee for the year in industry will be 20% of the first
	year fee for that academic year)
Overseas tuition fee 2016/17**	£18,300 (The fee for the year in industry will be 20% of the first
	year fee for that academic year)
Other essential costs***	None
* Tuition face are likely to rice appually in line with inflation but no more than 516 per year. For further information	

* Tuition fees are likely to rise annually in line with inflation but no more than 5% per year. For further information pleasesee Royal Holloway's <u>Terms & Conditions</u>.

*** These estimated costs relate to studying this particular degree programme at Royal Holloway. Costs, such as accommodation, food, books and other learning materials and printing etc., have not been included, and further information regarding these can be found on our website.

Section 3 – useful vocabulary

We understand some of the terminology used in this document may be new to you, and may differ from that used by other universities. To help with this, we have provided a brief description for some of the most important terminology:

Degree programme – Also referred to as 'degree course' or simply 'course', these terms refer to the qualification you will be awarded upon successful completion of your studies.

Course unit – Also referred to as 'module', this refers to the individual units you will study each year to complete your degree programme. Masters programmes consist of a number of taught course units – some mandatory and some optional - plus a dissertation/ project to the value of 180 UK credits in total. On completion of a minimum of 120 UK credits a student may be awarded a Postgraduate Diploma, while on completion of a minimum of 60 credits a student may be awarded a Postgraduate Certificate. Some Masters programmes may have progression requirements (where they are offered over more than one year of study) or pass requirements for degree title if they are accredited by a professional body.

H/EU – Different categories of students pay different levels of tuition fees. H/EU stands for students with Home or European Union fee status.

Overseas – Non-EU students are liable to pay the overseas rate of tuition fees, and are sometimes also referred to as international students.



5 February 2016 Section 4 – contact information

If you have any further questions, you can contact the Admissions team by email at <u>study@royalholloway.ac.uk</u>.

This information is final at the time of publication on 5 February 2016 and supersedes any previous information provided in publications or on Royal Holloway's website.