

5 February 2016

**Machine Learning (Taught); (MSc); 2626
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 | 1 year full-time |
| Available part-time | 2 years part-time |

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Please note that although the College will keep changes to a minimum, new units may be offered or existing units may be withdrawn, for example, in response to a change in staff.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 | | |
| CS5800 Computation with Data | 10 | Yes | | 1 |
| (CS5810) Programming for Data Analysis | 10 | Yes | | |
| (CS5920) Machine Learning | 10 | Yes | | 2 |
| (CS5200) On-line Machine Learning | 20 | Yes | | |
| Choose one of the following: | | | | |
| (MT5432) Inference | 20 | Yes | | |
| (MT5436) Applied Probability | 20 | Yes | | |
| (CS5821) Individual Project | 60 | Yes | | |
| Optional courses are chosen to complete each term to a total of 60 credits. | | | | |
| (BI5631) Database Systems | 10 | | Yes | 1 |
| (CS5234) Large-scale Data Storage and Processing | 20 | | Yes | |
| (CS5930) Methods of Computational Finance | 10 | | Yes | 2 |

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| | | | | |
|--|----|--|-----|---|
| (CS5450) Software Verification | 10 | | Yes | 2 |
| (CS5580) Advanced Data Communications | 10 | | Yes | 2 |
| (CS5220) Fundamentals of Digital Sound and Music | 10 | | Yes | |
| (CS5945) Intelligent Agents and Multi-Agent Systems | 10 | | Yes | |
| (CS5945) Semantic Web | 10 | | Yes | |
| (BI5632) Internet and Web Technologies | 10 | | Yes | 2 |
| (CS5234) Large-Scale Data Storage and Processing | 20 | | Yes | |
| (BI5499) Service-Oriented Computing, Technology and Management | 10 | | Yes | |
| (BI502) Business Intelligence | 10 | | Yes | 5 |
| (CS5504) Business Intelligence Systems, Infrastructures and Technologies | 20 | | Yes | 5 |
| (CS5490) Computational Optimization | 10 | | Yes | 2 |
| (CS5110) Methods of Bioinformatics | 10 | | Yes | 2 |
| (CS5250) Visualisation and Exploratory Analysis | 10 | | Yes | 2 |
| (EC5333) Financial Econometrics | 20 | | Yes | |
| (EC5321) Investment and Portfolio Management | 20 | | Yes | |
| (EC5340) Fixed Income Securities and Derivatives | 20 | | Yes | |
| (EC5041) Microeconometrics | 20 | | Yes | |
| (EC5070) Decision Theory and Behaviour | 20 | | Yes | |
| (MT5433) Topics in Applied Statistics | 20 | | Yes | |
| (IY5522) Security Technologies | 20 | | Yes | |
| (IY5502) Introduction to Cryptography | 20 | | Yes | |
| (IY5511) Network Security | 20 | | Yes | |
| (IY5512) Computer Security | 20 | | Yes | |
| (IY5501) Security Management | 20 | | Yes | |
| (IY5606) Smart Cards, RFIDs and Embedded Systems Security | 20 | | Yes | |
| (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

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|--------------------------------|---------|
| H/EU tuition fee 2016/17** | £8,100 |
| Overseas tuition fee 2016/17** | £18,300 |
| Other essential costs*** | None |

** Tuition fees are likely to rise annually in line with inflation but no more than 5% per year. For further information please see Royal Holloway's [Terms & Conditions](#).

*** 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.

Section 4 – contact information

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

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.