# Information Security with a Year in Industry; MSc; 2956
## September 2020 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) | GCHQ |
| Standard length of degree | 2 years |
| Available part-time | No |

To comply with GCHQ accreditation requirements students must successfully complete the degree programme and pass the project.

Student must either follow Core A or Core B. The following table summarises the compulsory modules for each of these Cores; such modules are referred to by Royal Holloway as mandatory course units, offered on this degree programme as well as the 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Please note that although the College will keep changes to a minimum, new units may be offered or existing units may be withdrawn, for example, in response to a change in staff.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 changes need to be made.

| Course unit name | Credits | Mandatory | Optional |
|---|---|---|---|
| (IY5500) Project | 60 | Yes | |
| (IY5501) Security Management | 20 | Yes | |
| (IY5502) Introduction to Cryptography and Security Mechanisms | 20 | Yes | |
| (IY5511) Network Security | 20 | Yes for Core A | |
| (IY5512) Computer Security | 20 | Yes for Core A | |
| (IY5523) Secure Business Architectures | 20 | Yes for Core B | |
| (IY5522) Security Technologies | 20 | Yes for Core B | |
| Students must select **two** of the following courses (please also see mandatory options below for particular pathways): | 20 | | Yes |
| (IY5521) Legal and Regulatory Aspects of Information Security | 20 | | Yes |
| (IY5603) Advanced Cryptography *(subject to availability)* | 20 | | Yes |
| (IY5604) Database Crime | 20 | | Yes |
| (IY5605) Cyber Crime | 20 | | Yes |
| (IY5606) Smart Cards, RFIDs and Embedded Systems | 20 | | Yes |

| Security | 20 | | Yes |
|---|---|---|---|
| (IY5607) Software Security | 20 | | Yes |
| (IY5609) Digital Forensics | 20 | | Yes |
| (IY5610) Security Testing Theory and Practice | | | |
| (IY5612) Cyber Security | | | |
| (IY5613) Human Factors of Security and Privacy | 20 | | Yes |

Additionally, an MSc student may optionally register for one of the following six pathways. These constrain the choices of the student in the following ways.

| Pathway | Core | Mandatory Options | Project |
|---|---|---|---|
| Cybercrime | A | IY5605 and IY5609 | Related to cybercrime |
| Smart cards, RFIDs and embedded systems security | A | IY5606 | Related to smart cards, RFIDs, or embedded systems |
| Cyber security | A or B | IY5612 | Related to Cyber security |
| Security testing | A | IY5610 | Related to Security testing |
| Digital forensics | A | IY5609 | Related to Digital forensics |
| Secure digital business | B | IY5521 | Related to Secure digital business |

The second year of this degree programme will be spent on a work placement. Students are supported by their academic department and the Royal Holloway Careers Service to find a suitable placement.  However, Royal Holloway cannot guarantee that all students who are accepted onto this degree programme will secure a placement, and the ultimate responsibility lies with the student. You will need to achieve an agreed level of academic performance to proceed onto, or remain on, a placement. On the MSc Information Security with a Year in Industry the decision to progress to the Year in Industry is taken by the examination Sub board and normally to progress students must engage with the activities run by the careers service throughout the year, achieve at least 50% in the January placement test, engage with the  project process during the Autumn and Spring term, and submit mandatory project process paperwork by the required deadlines, pass the taught courses and show competence in the use of English language within the January placement test.   This year forms an integral part of the degree programme and students will be asked to complete assessed work. The mark for this work will count towards the degree.

## Section 2 – degree programme costs

| Essential costs* | No further costs |
|---|---|

\* 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 (05/11/2019) and supersedes any previous information provided in publications or on Royal Holloway's website.