

Course Information Sheet for entry in 2021-22: MSc in Software and Systems Security



About the course

The MSc in Software and Systems Security teaches the principles of systems security, with a particular emphasis upon the security properties and implications of software and information technologies. It offers working professionals the opportunity to learn more about the application of these principles, current best practice and the latest advances in the field, through a course of part-time study at one of the world's leading universities.

The Department of Computer Science offers professional courses in 14 different subjects in the area of systems security: from design to forensics; from governance to malware; and from wireless networks to cloud platforms. It offers also courses in another 24 subjects, each addressing a different aspect of computer science or software engineering. To earn an MSc in Software and Systems Security, you must complete courses in ten different subjects, the majority of which must be in the area of systems security.

Each course is delivered by an expert in the subject, and is based around a single, intensive teaching week of classes, practical sessions, and group work; class sizes are kept small to facilitate interaction and to promote effective learning. Each subject is taught at least once a year - some are taught two or three times - and most can be studied in any order. Most students will spend three or four years completing the 10 courses required for the MSc.

An assignment will be distributed on the last day of the teaching week. This builds upon the learning of the week, allowing you to test and extend your understanding through application outside the classroom.

To earn the MSc, you must complete also a short project and dissertation in the area of software and systems security. The project needs to be an original demonstration of ability and understanding, but there is no requirement to advance the state of the art in the field. You need only choose and apply an appropriate selection of existing ideas and techniques provided that their choice, the process of application, and any outcomes are properly explained.

The project involves compulsory attendance at a one-week project course in Oxford, at which you will present and refine your proposal, and attend teaching sessions on research skills, engineering in context, and social, legal and ethical issues.

The Department of Computer Science offers another master's degree, the MSc in Software Engineering, available to those who take the majority of their courses, and their project and dissertation, in that area.

Supervision

The allocation of graduate supervision for this course is the responsibility of the Department of Computer Science and it is not always possible to accommodate the preferences of incoming graduate students to work with a particular member of staff. Under exceptional circumstances a supervisor may be found outside the Department of Computer Science.

You will be assigned a supervisor at the beginning of your period of study. Supervisors can provide advice on all academic matters including course selection, the choice of a suitable project and the preparation of a dissertation.

Assessment

The assignment that is distributed on the last day of the teaching week must be submitted within a six-week time frame. This forms the basis for assessment; all assignments are treated as formal examinations of the University.

You will need to complete a short project and dissertation in the area of software and systems security. The results of the project work are presented in a dissertation of 15,000 to 20,000 words, or 45 to 60 pages. This forms the basis for formal assessment of the project, just as the written assignments form the basis for assessment of the taught modules. The dissertation can be submitted at any time during the allowed period of study, although it is usually the last piece of work undertaken.

Changes to courses

The University will seek to deliver this course in accordance with the description set out above. However, there may be situations in which it is desirable or necessary for the University to make changes in course provision, either before or after registration. These may include significant changes made necessary by a pandemic (including Covid-19), epidemic or local health emergency. For

further information, please see the University's Terms and Conditions (<http://www.graduate.ox.ac.uk/terms>) and our page on changes to courses (<http://www.graduate.ox.ac.uk/coursechanges>).

Expected length of course

| | Part Time Only |
|-----------------|----------------|
| Expected length | 2 to 4 years |

Costs

Modular course fees

The fees for this course are charged on a modular basis. You will pay one programme or registration fee and an additional fee for each module studied. The registration fee is split into four instalments, which are due at or before the beginning of each year of study. This MSc can be undertaken in a minimum of two and a maximum of four years and all instalments will be due regardless of duration of study. Students must complete ten modules, together with a masters'-level project and dissertation. The cost of the project module is included in the MSc registration fee. Extension fees will apply at £100 per term beyond the four years.

Fees for the 2021-22 academic year

| Fee status | Registration Fee | Fee per module | Total estimated fees |
|---|------------------|----------------|---|
| Home (UK, Republic of Ireland, Channel Islands & Isle of Man) | £9,585 | £2,350 | Please see the department's website for further details |
| Overseas (including EU) | £15,990 | £2,350 | |

Course fees are payable each year, for the duration of your fee liability (your fee liability is the length of time for which you are required to pay course fees). For courses lasting longer than one year, please be aware that fees will usually increase annually. Information about how much fees and other costs may increase is set out in the University's Terms and Conditions.

Course fees cover your teaching as well as other academic services and facilities provided to support your studies. Unless specified in the additional cost information (below), course fees do not cover your accommodation, residential costs or other living costs. They also don't cover any additional costs and charges that are outlined in the additional cost information.

Additional cost information

Please note that this course requires that you attend in Oxford for teaching, and you may incur additional travel and accommodation expenses for this. Further, as part of your course requirements, you may need to choose a dissertation, a project or a thesis topic. Depending on your choice of topic and the research required to complete it, you may incur additional expenses, such as travel expenses, research expenses, and field trips. You will need to meet these additional costs, although you may be able to apply for small grants from your department and/or college to help you cover some of these expenses.

Living costs

In addition to your course fees, you will need to ensure that you have adequate funds to support your living costs for the duration of your course.

If you are studying part-time your living costs may vary depending on your personal circumstances but you must still ensure that you will have sufficient funding to meet these costs for the duration of your course.

The likely living costs for 2021-22 are published below. These costs are based on a single, full-time graduate student, with no dependants, living in Oxford. We provide the cost per month so you can multiply up by the number of months you expect to live in Oxford.

Likely living costs for 2021-22

| | Likely living costs for 1 month | | Likely living costs for 9 months | | Likely living costs for 12 months | |
|--------------------------|---------------------------------|-------------|----------------------------------|-------------|-----------------------------------|-------------|
| | Lower range | Upper range | Lower range | Upper range | Lower range | Upper range |
| Food | £280 | £400 | £2,520 | £3,600 | £3,360 | £4,800 |
| Accommodation | £655 | £790 | £5,895 | £7,110 | £7,860 | £9,480 |
| Personal items | £130 | £250 | £1,170 | £2,250 | £1,560 | £3,000 |
| Social activities | £45 | £115 | £405 | £1,035 | £540 | £1,380 |
| Study costs | £45 | £100 | £405 | £900 | £540 | £1,200 |
| Other | £20 | £55 | £180 | £495 | £240 | £660 |
| Total | £1,175 | £1,710 | £10,575 | £15,390 | £14,100 | £20,520 |

When planning your finances for any future years of study at Oxford beyond 2021-22, you should allow for an estimated increase in living expenses of 3% each year.

More information about how these figures have been calculated is available at www.graduate.ox.ac.uk/livingcosts.

Document accessibility

If you require an accessible version of the document please contact Graduate Admissions and Recruitment by email (graduate.admissions@admin.ox.ac.uk) or via the online form (<http://www.graduate.ox.ac.uk/ask>).