

Department of Computer Science

About the department

Computer Science is a very exciting subject to study. The sheer variety of technologies that are available and that keep being invented, and the transformations that they are inducing in all sectors of activity and the well-being of societies, create huge opportunities for graduates. In the latest Research Assessment Exercise, we ranked 11th in the UK for the quality of our research output, with over a quarter of our publications recognised as world leading, and a further half internationally excellent.

You will be taught by world leaders in several areas of research such as Machine Learning (the science of systems that can learn from data), Algorithms, Bioinformatics, Software Language Engineering, Distributed Systems, and Information Security. This means that you will be exposed to the methods and techniques that cutting-edge companies are looking for, to become leaders in their sectors.

Entry requirements

The modules listed below are open to Study Abroad, International Exchange and European Exchange students who study here for a full year, or for Terms 2 & 3 only. Unfortunately, Computer Science modules are not available to students who are here for the Autumn Term only as the exams will take place in Term 3 (summer term).

Students must have sufficient evidence of previous experience and knowledge as stated in the individual course pre-requisites. Please note that these courses may be adjusted slightly over the coming months which may involve some changes to the course content, learning objectives and summative assessment.

Each course is 15 RHUL credits (7.5 ECTS) and starts in either Term 1 (September) or Term 2 (January).

Important Note:

¹We cannot offer these modules to Term 1 students due to all assessments taking place in the summer term

The information contained in the module options on the following pages is correct at the time of publication but may be subject to change as part of our policy of continuous improvement and development.



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2026-27 Module options for visiting students

| Module code | Module name | Credit value | Term 1, Term 2 or Full Year | Module syllabus Link and any pre-requisites |
|-------------|--------------------------------------|--------------|-----------------------------|---|
| CS2800 | Software Engineering | 15:00 | Term 1 ¹ | Syllabus information |
| CS2850 | Operating Systems | 15:00 | Term 1 ¹ | Syllabus Information |
| CS2855 | Databases | 15:00 | Term 1 ¹ | Syllabus Information |
| CS2860 | Algorithms and Complexity | 15:00 | Term 2 | Syllabus Information |
| CS2900 | Multi-dimensional Data Processing | 15:00 | Term 2 | Syllabus Information |
| CS2910 | Artificial Intelligence | 15:00 | Term 2 | Syllabus Information |
| IY2760 | Introduction to Information Security | 15:00 | Term 1 ¹ | Syllabus Information |
| IY2840 | Computer and Network Security | 15:00 | Term 2 | Syllabus Information |



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| Module code | Module name | Credit value | Term 1, Term 2 or Full Year | Module syllabus Link and any pre-requisites |
|-------------|---|--------------|-----------------------------|---|
| CS3003 | IT Project Management | 15:00 | Term 1 ¹ | Syllabus Information |
| CS3450 | Software Verification | 15:00 | Term 2 | Syllabus Information |
| CS3470 | Compilers and Code Generation | 15:00 | Term 1 ¹ | Syllabus Information |
| CS3480 | Software Language Engineering | 15:00 | Term 2 | Syllabus Information |
| CS3490 | Computational Optimisation | 15:00 | Term 2 | Syllabus Information |
| CS3510 | Functional Programming and Applications | 15:00 | Term 2 | Syllabus Information |
| CS3600 | Quantum Computation | 15:00 | Term 1 ¹ | Syllabus Information |



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| Module code | Module name | Credit value | Term 1, Term 2 or Full Year | Module syllabus Link and any pre-requisites |
|-------------|------------------------------------|--------------|-----------------------------|---|
| CS3870 | Advanced Algorithms and Complexity | 15:00 | Term 2 | Syllabus Information |
| CS3920 | Machine Learning | 15:00 | Term 1 ¹ | Syllabus Information |
| CS3930 | Computational Finance | 15:00 | Term 2 | Syllabus Information |
| CS3940 | Intelligent Agents & MA System | 15:00 | Term 1 ¹ | Syllabus Information |
| CS3950 | Deep Learning | 15:00 | Term 2 | Syllabus Information |
| IY3501 | Security Management | 15:00 | Term 1 | Syllabus Information |



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