

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 Erasmus students who study here for a full year, or for Term 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.

The information contained in the module outlines 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.



royalholloway.ac.uk/Computer Science



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Module options for visiting students

Modules code	Module name	15 or 30 UK credits	Start date	Module description/pre-requisites
CS2800	Software Engineering	15 UK credits (N.B. No CS modules are available to Term 1 only students)	September 2021	<u>Syllabus information</u>
CS2850	Operating Systems	15 UK credits	September 2021	<u>Syllabus information</u>
CS2855	Databases	15 UK credits	September 2021	<u>Syllabus information</u>
CS2860	Algorithms and Complexity	15 UK credits	January 2022	<u>Syllabus information</u>
CS2900	Multi-dimensional Data Processing	15 UK credits	January 2022	<u>Syllabus information</u>
CS2910	Artificial Intelligence	15 UK credits	January 2022	<u>Syllabus information</u>
IY2760	Introduction to Information Security	15 UK credits	September 2021	<u>Syllabus information</u>
IY2840	Computer and Network Security	15 UK credits	January 2022	<u>Syllabus information</u>
CS3003	IT Project Management	15 UK credits	September 2021	<u>Syllabus information</u>



Module options for visiting students

Module code	Module name	15 or 30 UK credits	Start date	Module description/pre-requisites
CS3470	<i>Compilers and Code Generation</i>	<i>15 UK credits (N.B. No CS modules are available to Term 1 only students)</i>	<i>September 2021</i>	<u>Syllabus information</u>
CS3480	<i>Software Language Engineering</i>	<i>15 UK credits</i>	<i>January 2022</i>	<u>Syllabus information</u>
CS3510	<i>Functional Programming and Applications</i>	<i>15 UK credits</i>	<i>January 2022</i>	<u>Syllabus information</u>
CS3920	<i>Machine Learning</i>	<i>15 UK credits</i>	<i>September 2021</i>	<u>Syllabus information</u>

