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 courses 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. Computer Science courses are not available to students who are here for the Autumn Term as all course assessments and exams take place in Term 3 only. 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 course 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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Course options for visiting students

Course code	Course name	½ or 1 unit	Start date	Course description/pre-requisites
CS2800	Software Engineering	½ unit	September 2018	https://www.royalholloway.ac.uk/computerscience/informationforcurrentstudents/ug-course-outlines.aspx#CS2800
CS2850	Operating Systems	½ unit	September 2018	https://www.royalholloway.ac.uk/computerscience/informationforcurrentstudents/ug-course-outlines.aspx#CS2850
CS2855	Databases	½ unit	September 2018	https://www.royalholloway.ac.uk/computerscience/informationforcurrentstudents/ug-course-outlines.aspx#CS2855
CS2860	Algorithms and Complexity	½ unit	January 2019	https://www.royalholloway.ac.uk/computerscience/informationforcurrentstudents/ug-course-outlines.aspx#CS2860
CS2900	Multi-dimensional Data Processing	½ unit	January 2019	https://www.royalholloway.ac.uk/computerscience/informationforcurrentstudents/ug-course-outlines.aspx#CS2900
CS2910	Artificial Intelligence	½ unit	January 2019	https://www.royalholloway.ac.uk/computerscience/informationforcurrentstudents/ug-course-outlines.aspx#CS2910
IY2760	Introduction to Information Security	½ unit	September 2018	https://www.royalholloway.ac.uk/computerscience/informationforcurrentstudents/ug-course-outlines.aspx#IY2760
IY2840	Computer and Network Security	½ unit	January 2019	https://www.royalholloway.ac.uk/computerscience/informationforcurrentstudents/ug-course-outlines.aspx#IY2840
CS3003	IT Project Management	½ unit	September 2018	https://www.royalholloway.ac.uk/computerscience/informationforcurrentstudents/ug-course-outlines.aspx#CS3003
CS3110	Bioinformatics	½ unit	January 2019	https://www.royalholloway.ac.uk/computerscience/informationforcurrentstudents/ug-course-outlines.aspx#CS3110

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Course options for visiting students

CS3250	Visualisation and Exploratory Analysis	½ unit	January 2019	https://www.royalholloway.ac.uk/computerscience/informationforcurrentstudents/ug-course-outlines.aspx#CS3250
CS3470	Compilers And Code Generation	½ unit	September 2018	https://www.royalholloway.ac.uk/computerscience/informationforcurrentstudents/ug-course-outlines.aspx#CS3470
CS3480	Software Language Engineering	½ unit	January 2019	https://www.royalholloway.ac.uk/computerscience/informationforcurrentstudents/ug-course-outlines.aspx#CS3480
CS3490	Computational Optimisation	½ unit	January 2019	https://www.royalholloway.ac.uk/computerscience/informationforcurrentstudents/ug-course-outlines.aspx#CS3490
CS3510	Functional Programming and Applications	½ unit	January 2019	https://www.royalholloway.ac.uk/computerscience/informationforcurrentstudents/ug-course-outlines.aspx#CS3510
CS3870	Advanced Algorithms	½ unit	September 2018	https://www.royalholloway.ac.uk/computerscience/informationforcurrentstudents/ug-course-outlines.aspx#CS3870
CS3920	Machine Learning	½ unit	September 2018	https://www.royalholloway.ac.uk/computerscience/informationforcurrentstudents/ug-course-outlines.aspx#CS3920
CS3930	Computational Finance	½ unit	January 2019	https://www.royalholloway.ac.uk/computerscience/informationforcurrentstudents/ug-course-outlines.aspx#CS3930
CS3940	Intelligent Agents and Multi-Agent Systems	½ unit	September 2018	https://www.royalholloway.ac.uk/computerscience/informationforcurrentstudents/ug-course-outlines.aspx#CS3940

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