Department of Computing, Security and Mathematics

About the department

The Mathematics section of the Department of Computing, Security and Mathematics at Royal Holloway is a lively and friendly place with an international reputation for the quality of its teaching and research. Academic staff are active in pioneering research which is making an impressive impact on the world stage. This strong research culture influences our curriculum, helping students to keep in touch with the latest developments in the field.

Mathematics modules at Royal Holloway cover a diverse spectrum from abstract pure mathematics such as Number Theory, group theory and combinatorics to applications in information security, theoretical physics, finance and statistics.

Entry requirements

The modules listed below are open to all Study Abroad, International and European Exchange students, subject to any required previous knowledge or qualification, as stated in the module outlines below.

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

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.

Module code	Module name	Credit value	Term 1, Term 2 or Full Year	Module syllabus Link and any pre-requisites
MT1100	Introduction to Geometry	15:00	Term 1	MT1100 Syllabus Information
MT1300	Statistical Methods	15:00	Term 1	MT1300 Syllabus Information
MT1710	Calculus 1	15:00	Term 1	MT1710 Syllabus Information
MT1810	Introduction to Pure Mathematics	15:00	Term 1	MT1810 Syllabus Information
MT1210	Introduction to Applied Mathematics	15:00	Term2	MT1210 Syllabus Information
MT1720	Calculus II	15:00	Term 2	MT1720 Syllabus Information
MT1820	Linear Algebra 1	15:00	Term 2	MT1820 Syllabus Information
MT1940	Real Analysis 1	15:00	Term 2	MT1940 Syllabus Information

Module code	Module name	Credit value	Term 1, Term 2 or Full Year	Module syllabus Link and any pre-requisites
MT2320	Probability Theory	15:00	Term 1	MT2320 Syllabus Information
MT2500	Scientific Programming	15:00	Term 1	MT2500 Syllabus Information
MT2720	Ordinary Differential Equations and Fourier Analysis	15:00	Term 1	MT2720 Syllabus Information
MT2900	Complex Analysis	15:00	Term 1	MT2900 Syllabus Information
MT2220	Vector Calculus	15:00	Term 2	MT2220 Syllabus Information
MT2300	Statistical Methods II	15:00	Term 2	MT2300 Syllabus Information
MT2800	Linear Algebra II	15:00	Term 2	MT2800 Syllabus Information
MT2830	Ring Theory	15:00	Term 2	MT2830 Syllabus Information

Module code	Module name	Credit value	Term 1, Term 2 or Full Year	Module syllabus Link and any pre-requisites
MT3050	Advanced Skills	15:00	Term 1	MT3050 Syllabus Information
MT3360	Markov Chains and Applications	15:00	Term 1	MT3360 Syllabus Information
MT3470	Financial Mathematics I	15:00	Term 1	MT3470 Syllabus Information
MT3450	Quantum Information Theory	15:00	Term 1	MT3450 Syllabus Information
MT3910	Topology	15:00	Term 1	MT3910 Syllabus Information
MT3540	Combinatorics	15:00	Term 2	MT3540 Syllabus Information
MT3260	Quantum Theory I	15:00	Term 2	MT3260 Syllabus Information
MT3320	Statistical Inference	15:00	Term 2	MT3320 Syllabus Information
MT3480	Financial Mathematics II	15:00	Term 2	MT3480 Syllabus Information
MT3690	Game Theory	15:00	Term 2	MT3690 Syllabus Information