

Department of Mathematics

About the department

The Mathematics Department 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 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 qualifications, as stated in the module outlines below.

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

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/Mathematics



ROYAL
HOLLOWAY
UNIVERSITY
OF LONDON

Level 1 courses

Module number	Module title	Run time	UK Credits	Link to syllabus
MT1100	Introduction to Geometry	Term 1	15.00	MT1100 Syllabus Information
MT1300	Statistical Methods	Term 1	15.00	MT1300 Syllabus Information
MT1710	Calculus I	Term 1	15.00	MT1710 Syllabus Information
MT1810	Introduction to Pure Mathematics	Term 1	15.00	MT1810 Syllabus Information
MT1210	Introduction to Applied Mathematics	Term 2	15.00	MT1210 Syllabus Information
MT1720	Calculus II	Term 2	15.00	MT1720 Syllabus Information
MT1820	Linear Algebra I	Term 2	15.00	MT1820 Syllabus Information
MT1940	Real Analysis I	Term 2	15.00	MT1940 Syllabus Information

Level 2 courses

Module number	Module title	Run time	UK Credits	Link to syllabus
MT2320	Probability Theory	Term 1	15.00	MT2320 Syllabus Information
MT2500	Scientific Programming	Term 1	15.00	MT2500 Syllabus Information
MT2720	Ordinary Differential Equations and Fourier Analysis	Term 1	15.00	MT2720 Syllabus Information
MT2900	Complex Analysis	Term 1	15.00	MT2900 Syllabus Information
MT2220	Vector Calculus	Term 2	15.00	MT2220 Syllabus Information
MT2300	Statistical Methods II	Term 2	15.00	MT2300 Syllabus Information
MT2800	Linear Algebra II	Term 2	15.00	MT2800 Syllabus Information
MT2830	Ring Theory	Term 2	15.00	MT2830 Syllabus Information

Level 3 courses

Module number	Module title	Run time	UK Credits	Link to syllabus
MT3050	Advanced skills	Term 1	15.00	MT3050 Syllabus Information
MT3360	Markov Chains and Applications	Term 1	15.00	MT3360 Syllabus Information
MT3470	Financial Mathematics I	Term 1	15.00	MT3470 Syllabus Information
MT3450	Quantum Information Theory	Term 1	15.00	MT3450 Syllabus Information
MT3910	Topology	Term 1	15.00	MT3910 Syllabus Information
MT3540	Combinatorics	Term 2	15.00	MT3540 Syllabus Information
MT3260	Quantum Theory I	Term 2	15.00	MT3260 Syllabus Information
MT3690	Game Theory	Term 2	15.00	MT3690 Syllabus Information
MT3320	Statistical Inference	Term 2	15.00	MT3320 Syllabus Information
MT3480	Financial Mathematics II	Term 2	15.00	MT3480 Syllabus Information

