

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 either 15 or 30 UK credits (7.5 or 15 ECTS) and starts in either the Autumn Term (September) or the Spring Term (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.



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Module options for visiting students

Level 1 courses

Module number	Module title	Run time	UK Credits	Link to syllabus
MT1100	Introduction to geometry	UG Autumn Term	15.00	MT1100 Syllabus Information
MT1300	Statistical methods	UG Autumn Term	15.00	MT1300 Syllabus Information
MT1710	Calculus I	UG Autumn Term	15.00	MT1710 Syllabus Information
MT1810	Introduction to Pure Mathematics	UG Autumn Term	15.00	MT1810 Syllabus Information
MT1210	Introduction to Applied Mathematics	UG Spring Term	15.00	MT1210 Syllabus Information
MT1720	Calculus II	UG Spring Term	15.00	MT1720 Syllabus Information
MT1820	Linear Algebra I	UG Spring Term	15.00	MT1820 Syllabus Information
MT1940	Real Analysis I	UG Spring Term	15.00	MT1940 Syllabus Information



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Module options for visiting students

Level 2 courses

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



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Module options for visiting students

Level 3 courses

Module number	Module title	Run time	UK Credits	Link to syllabus
MT3050	Advanced skills	UG Autumn Term	15.00	MT3050 Syllabus Information
MT3360	Markov chains and applications	UG Autumn Term	15.00	MT3360 Syllabus Information
MT3470	Financial Mathematics I	UG Autumn Term	15.00	MT3470 Syllabus Information
MT3680	Introduction to Optimisation	UG Autumn Term	15.00	MT3680 Syllabus Information
MT3860	Group Theory	UG Autumn Term	15.00	MT3860 Syllabus Information
MT3110	Number Theory	UG Spring Term	15.00	MT3110 Syllabus Information
MT3270	Applications of vector calculus	UG Spring Term	15.00	MT3270 Syllabus Information
MT3280	Non-linear dynamical systems	UG Spring Term	15.00	MT3280 Syllabus Information
MT3320	Statistical inference	UG Spring Term	15.00	MT3320 Syllabus Information
MT3480	Financial Mathematics II	UG Spring Term	15.00	MT3480 Syllabus Information



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