



The Faculty of Science

Department of Mathematics

COURSE OPTIONS FOR VISITING STUDENTS

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 courses at Royal Holloway cover a diverse spectrum from abstract pure mathematics to applications in information security, theoretical physics, finance and statistics.

ENTRY REQUIREMENTS

The courses listed below are open to all Study Abroad, International Exchange and Erasmus students, provided sufficient previous experience and knowledge as stated in the individual course prerequisites can be evidenced.

Term 1 = Autumn Term

Term 2 = Spring Term

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.

Course specifications can be found here:

<http://www.rhul.ac.uk/mathematics/prospectivestudents/undergraduate/mathematicscourseunits.aspx>

Level One:

MT1710	Calculus	½ unit	Term 1
<ul style="list-style-type: none">• This course is available to all ERASMUS, INTERNATIONAL EXCHANGE and STUDY ABROAD students• This course runs in Term 1. It begins in September.			

MT1810	Number Systems	1/2 unit	Term 1
<ul style="list-style-type: none">• This course is available to all ERASMUS, INTERNATIONAL EXCHANGE and STUDY ABROAD students• This course runs in Term 1. It begins in September.			

MT1940	Numbers and Functions	1/2 unit	Term 1
<ul style="list-style-type: none">• This course is available to all ERASMUS, INTERNATIONAL EXCHANGE and STUDY ABROAD students• This course runs in Term 1. It begins in September.			

MT1100	From Euclid to Mandelbrot	1/2 unit	Term 1
<ul style="list-style-type: none">• This course is available to all ERASMUS, INTERNATIONAL EXCHANGE and STUDY ABROAD students• This course runs in Term 1. It begins in September.			

MT1210	Introduction to Applied Mathematics	1/2 unit	Term 2
<ul style="list-style-type: none">• This course is available to all ERASMUS, INTERNATIONAL EXCHANGE and STUDY ABROAD students• This course runs in Term 2. It begins in January.			

MT1300	Principles of Statistics	1/2 unit	Term 2
<ul style="list-style-type: none">• This course is available to all ERASMUS, INTERNATIONAL EXCHANGE and STUDY ABROAD students• This course runs in Term 2. It begins in January.			

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MT1720	Functions of Several Variables	1/2 unit	Term 2
<ul style="list-style-type: none"> This course is available to all ERASMUS, INTERNATIONAL EXCHANGE and STUDY ABROAD students This course runs in Term 2. It begins in January. 			

MT1820	Matrix Algebra	1/2 unit	Term 2
<ul style="list-style-type: none"> This course is available to all ERASMUS, INTERNATIONAL EXCHANGE and STUDY ABROAD students This course runs in Term 2. It begins in January. 			

Level Two:

MT2220	Vector Analysis and Fluids	1/2 unit	Term 1
<ul style="list-style-type: none"> This course is available to all ERASMUS, INTERNATIONAL EXCHANGE and STUDY ABROAD students This course runs in Term 1. It begins in September. 			

MT2300	Statistical Methods	1/2 unit	Term 1
<ul style="list-style-type: none"> This course is available to all ERASMUS, INTERNATIONAL EXCHANGE and STUDY ABROAD students This course runs in Term 1. It begins in September. 			

MT2940	Real Analysis	1/2 unit	Term 1
<ul style="list-style-type: none"> This course is available to all ERASMUS, INTERNATIONAL EXCHANGE and STUDY ABROAD students This course runs in Term 1. It begins in September. 			

MT2800	Linear Algebra and Project	1/2 unit	Term 1
<ul style="list-style-type: none"> This course is available to all ERASMUS, INTERNATIONAL EXCHANGE and STUDY ABROAD students This course runs in Term 1. It begins in September. 			

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MT2830	Rings and Factorisation	1/2 unit	Term 1
<ul style="list-style-type: none"> This course is available to all ERASMUS, INTERNATIONAL EXCHANGE and STUDY ABROAD students This course runs in Term 1. It begins in September. 			

MT2320	Probability	1/2 unit	Term 2
<ul style="list-style-type: none"> This course is available to all ERASMUS, INTERNATIONAL EXCHANGE and STUDY ABROAD students This course runs in Term 2. It begins in January. 			

MT2630	Graphs and Optimisation	1/2 unit	Term 2
<ul style="list-style-type: none"> This course is available to all ERASMUS, INTERNATIONAL EXCHANGE and STUDY ABROAD students This course runs in Term 2. It begins in January. 			

MT2720	Ordinary DEs and Fourier Analysis	1/2 unit	Term 2
<ul style="list-style-type: none"> This course is available to all ERASMUS, INTERNATIONAL EXCHANGE and STUDY ABROAD students This course runs in Term 2. It begins in January. 			

MT2860	Groups and Group Actions	1/2 unit	Term 2
<ul style="list-style-type: none"> This course is available to all ERASMUS, INTERNATIONAL EXCHANGE and STUDY ABROAD students This course runs in Term 2. It begins in January. 			

MT2900	Complex Variable	1/2 unit	Term 2
<ul style="list-style-type: none"> This course is available to all ERASMUS, INTERNATIONAL EXCHANGE and STUDY ABROAD students This course runs in Term 2. It begins in January. 			

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Level Three and Four:

MT3320	Inference	1/2 unit	Term 2
<ul style="list-style-type: none">This course is available to all ERASMUS, INTERNATIONAL EXCHANGE and STUDY ABROAD studentsThis course runs in Term 2. It begins in January.			
MT3340	Time Series Analysis	1/2 unit	Term 1
<ul style="list-style-type: none">This course is available to all ERASMUS, INTERNATIONAL EXCHANGE and STUDY ABROAD studentsThis course runs in Term 1. It begins in September.			
MT3360	Applied Probability	1/2 unit	Term 2
<ul style="list-style-type: none">This course is available to all ERASMUS, INTERNATIONAL EXCHANGE and STUDY ABROAD studentsThis course runs in Term 2. It begins in January.			
MT3470	Mathematics of Financial Markets	1/2 unit	Term 1
<ul style="list-style-type: none">This course is available to all ERASMUS, INTERNATIONAL EXCHANGE and STUDY ABROAD studentsThis course runs in Term 1. It begins in September.			
MT4470	Advanced Financial Mathematics	1/2 unit	Term 2
<ul style="list-style-type: none">This course is available to all ERASMUS, INTERNATIONAL EXCHANGE and STUDY ABROAD studentsThis course runs in Term 2. It begins in January.			
MT3200	Quantum Theory I	1/2 unit	Term 1
<ul style="list-style-type: none">This course is available to all ERASMUS, INTERNATIONAL EXCHANGE and STUDY ABROAD studentsThis course runs in Term 1. It begins in September.			

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MT3220	Dynamics of Real Fluids	1/2 unit	Term 1
<ul style="list-style-type: none"> This course is available to all ERASMUS, INTERNATIONAL EXCHANGE and STUDY ABROAD students This course runs in Term 1. It begins in September. 			
MT3280	Non-Linear Dynamical Systems	1/2 unit	Term 2
<ul style="list-style-type: none"> This course is available to all ERASMUS, INTERNATIONAL EXCHANGE and STUDY ABROAD students This course runs in Term 2. It begins in January. 			
MT3450	Quantum Information and Coding	1/2 unit	Term 2
<ul style="list-style-type: none"> This course is available to all ERASMUS, INTERNATIONAL EXCHANGE and STUDY ABROAD students This course runs in Term 2. It begins in January. 			
MT3620	Cipher Systems	1/2 unit	Term 1
<ul style="list-style-type: none"> This course is available to all ERASMUS, INTERNATIONAL EXCHANGE and STUDY ABROAD students This course runs in Term 1. It begins in September. 			
MT3610	Error Correcting Codes	1/2 unit	Term 2
<ul style="list-style-type: none"> This course is available to all ERASMUS, INTERNATIONAL EXCHANGE and STUDY ABROAD students This course runs in Term 2. It begins in January. 			
MT4410	Channels	1/2 unit	Term 1
<ul style="list-style-type: none"> This course is available to all ERASMUS, INTERNATIONAL EXCHANGE and STUDY ABROAD students This course runs in Term 1. It begins in September. 			

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MT4660	Public Key Cryptography	1/2 unit	Term 2
<ul style="list-style-type: none"> This course is available to all ERASMUS, INTERNATIONAL EXCHANGE and STUDY ABROAD students This course runs in Term 2. It begins in January. 			
MT4120	Computational Number Theory	1/2 unit	Term 1
<ul style="list-style-type: none"> This course is available to all ERASMUS, INTERNATIONAL EXCHANGE and STUDY ABROAD students This course runs in Term 1. It begins in September. 			
MT3110	Number Theory	1/2 unit	Term 2
<ul style="list-style-type: none"> This course is available to all ERASMUS, INTERNATIONAL EXCHANGE and STUDY ABROAD students This course runs in Term 2. It begins in January. 			
MT4540	Combinatorics	1/2 unit	Term 1
<ul style="list-style-type: none"> This course is available to all ERASMUS, INTERNATIONAL EXCHANGE and STUDY ABROAD students This course runs in Term 1. It begins in September. 			
MT4850	Applications of Field Theory	1/2 unit	Term 1
<ul style="list-style-type: none"> This course is available to all ERASMUS, INTERNATIONAL EXCHANGE and STUDY ABROAD students This course runs in Term 1. It begins in September. 			
MT4140	Principles of Algorithm Design	1/2 unit	Term 1
<ul style="list-style-type: none"> This course is available to all ERASMUS, INTERNATIONAL EXCHANGE and STUDY ABROAD students This course runs in Term 1. It begins in September. 			

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