

MATHEMATICAL SCIENCES

DIVISION OF MATHEMATICAL AND PHYSICAL SCIENCES

Lecture List for Michaelmas Term 2020

There may be late changes and amendments to this Lecture List. For an up-to-date version, please check the Mathematical Institute Website: <https://www.maths.ox.ac.uk/members/students/lecture-lists>

This version updated 19 Oct 2020

Events shown on this list are generally one hour long unless stated otherwise.

<i>Subject</i>	<i>Lecturer</i>	<i>Time*</i>	<i>Place</i>
GRADUATE SEMINARS			
Data Science	Anna Seigal and Vidit Nanda	F. 12 (4 per term from 16 Oct)	Online
Fridays@4	Prof. Sam Cohen	F.4	Online. Further details TBA
Functional Analysis	Prof. Stuart White	Weeks 0, 2, 4, 6, 8 Th. 4	Online. https://sites.google.com/view/uk-operator-algebras-seminar/home
Galois Theory of Periods	Prof. Francis Brown	W.4-6	Online. Further details TBA
Geometry and Analysis	Prof Andrew Dancer, Prof. Dominic Joyce, Prof Frances Kirwan and Prof. Alexander Ritter	M.2:15	Online. Further details TBA https://www.maths.ox.ac.uk/events/list/641
Industrial and Applied Mathematics	Dr Mohit Dalwadi and Dr Matthew Hennessy	Th.4 (week 0-8)	Online. Further details TBA https://zoom.us/j/91733296449?pwd=c29vMDluR0RCRHJia2JlZjU0OT09
Junior Algebra and Representation Theory seminar	James Timmins and Ruben La	F. 2 wk 2-8	TBD
Junior Topology and Group Theory Seminar	Joseph Scull	W. 10	Link will be posted 10 mins before each meeting. https://www.maths.ox.ac.uk/events/list/655/
Logic	Prof. Jonathan Pila and Prof Ehud. Hrushovski	Th. 10	TBD
Mathematical Biology & Ecology Seminars	Profs Philip Maini and Peter Minary	F. 2	Online. Further details TBA https://www.maths.ox.ac.uk/events/list/659
Mathematical & Computational Finance	Prof Rama Cont and Dr Ren Yuan Xu	Th. 16:00 – 17:00	More details https://www.maths.ox.ac.uk/events/list/661/all
Mathematical Geoscience Seminar	Prof Ian Hewitt	F. 2 (even weeks)	https://www.maths.ox.ac.uk/events/list/663
Networks Seminar	Rodrigo Leal Cervantes and Karel Devriendt	Tu. 2	Online. https://www.maths.ox.ac.uk/groups/networks/networks-seminar
Nonlinear PDE	Prof Gui-Qiang G. Chen	Th, 3:30 - 5:30	Online. Further details TBA
Numerical Analysis Internal Seminar	Prof Yuji Nakatsukasa	See link for dates	Online. https://www.maths.ox.ac.uk/events/list/670
Partial Differential Equations Seminar	Prof Andrea Mondino, Prof Luc Nguyen, Prof Qian Wang	M. 4 (only 4-5 sessions this term) TBC	Online. Further details TBA
PDE CDT lunchtime seminar	Various	Th.12	Online TBA https://www.maths.ox.ac.uk/events/list/2895
PDE CDT Student Seminar	Chris Irving, James Kohout, Jonah Duncan	F. 11 (TBC)	Online. Further details TBA

Quantum Field Theory/Relativity	Dr Keith Hannabuss , Prof Lionel Mason and Dr Florence Tsou	Odd weeks Tu. 12-1:15	Online https://www.maths.ox.ac.uk/events/list/686
Random Matrix Theory Seminar	Prof Jon Keating	T. 3:30	https://www.maths.ox.ac.uk/events/list/3669 Zoom link published weekly
Set Theory Seminar	Joel Hamkins	W. 4-5:30 See link for schedule	http://jdhamkins.org/oxford-set-theory-seminar/
Stochastic Analysis and Mathematical Finance	Prof. Terry Lyons and Prof. Rama Cont	M 16:00-17:00	Schedule and sign-up https://researchseminars.org/seminar/OxfordStochasticAnalysis
Topology Seminar	Andras Juhasz, Andre Henriques, and David Kielak	M. 3:45	Online. Further details TBA
Oxford Discrete Mathematics and Probability Seminar	Prof Christina Goldschmidt and Prof Alex Scott	Tuesday afternoons. Details in link.	Online (Zoom) http://people.maths.ox.ac.uk/scott/dmp.htm
GRADUATE WORKING SEMINARS			
Rough Paths and Data Science	Prof. Terry Lyons		Mathematical Institute
WORKSHOPS			
Industrial and Interdisciplinary Workshops	Prof. Chris Breward	F. 10	TBD
ADVANCED CLASSES			
Topology	Lukas Brantner, Andre Henriques, and Ulrike Tillmann	M. 11	Online. Further details TBA
GRADUATE LECTURES			
Lectures TBD			
TAUGHT COURSE CENTRE			
The Taught Course Centre is a collaboration between the Mathematics Departments at the Universities of Bath, Bristol, Imperial, Oxford and Warwick. It aims to offer approximately 25 graduate level courses over the academic year. Access grid technology will be used so that audiences in all five universities can participate in the lectures. Graduate students should register in advance in order to attend the lectures. For more information about the Taught Course Centre, and for their lecture timetable, please see the website at https://www.maths.ox.ac.uk/groups/tcc			
CDT in INDUSTRIALLY FOCUSED MATHEMATICAL MODELLING			
No lectures			
EPSRC CDT in MATHEMATICS OF RANDOM SYSTEMS			
Advanced Topics in Stochastic Processes	Prof Xue-Mei Li	Tu. 9:30-11:30	Mathematical Institute, L2
Advanced Topics in Stochastic Analysis	Dr Andreas Sojmark	Th. 2-4	Mathematical Institute, L2
CDT Faculty Seminars		Tu. 4:15-5:00	Mathematical Institute, L2
Simulation methods and Stochastic Algorithms	Prof Mike Giles	Th. 11-1	Mathematical Institute, L2
Theories of Deep Learning	Prof Jared Tanner		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture
M.Sc IN MATHEMATICAL AND COMPUTATIONAL FINANCE			

Financial Computing with C++	Greg Gyurko	Week 1 W. 11-1 Week 2-8 W. 10-12	Mathematical Institute, L1
Financial Derivatives	Anna Ananova	Week 1 M. 2-4 Week 2-8 M. 11 Tu. 11	Mathematical Institute, L1
Numerical Methods	Justin Sirignano	Week 1 W. 2-4 Weeks 2-8 W. 1-3	Mathematical Institute, L1
Statistics and Financial Data Analysis	Katia Babbar	Week 1-8 Th. 11-1	Mathematical Institute, L1

M.Sc IN MATHEMATICAL AND THEORETICAL PHYSICS

Advanced Philosophy of Physics	Dr Carina Prunkl, Dr Tushar Menon, Prof James Read	TBD	Department of Physics will confirm the status and arrangements for these lectures.
Advanced Quantum Theory	Dr Sid Parameswaran	TBD	Department of Physics will confirm the status and arrangements for these lectures.
Algebraic Geometry	Prof. Balazs Szendroi		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture
Algebraic Topology	Prof. Alexander Ritter		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture
Differentiable Manifolds	Prof. Jason Lotay		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture
General Relativity I	Dr Joe Keir		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture
Groups and Representations	Prof. Andre Lukas		Department of Physics will confirm the status and arrangements for these lectures.
Kinetic Theory	Prof Paul Dellar, Prof. Alex Schekochihin.		Department of Physics will confirm the status and arrangements for these lectures.
Numerical Linear Algebra	Prof. Yuji Nakatsukasa		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture
Perturbation Methods	Prof. Eamonn Gaffney		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture
Quantum Field Theory	Prof. John Wheeler		Department of Physics will confirm the status and arrangements for these lectures.
Quantum Processes in Hot Plasma	Prof. Peter Norreys		Department of Physics will confirm the status and arrangements for these lectures.
Soft Matter Physics	Prof Julia Yeomans		Department of Physics will confirm the status and arrangements for these lectures.
Topological Quantum Theory	Prof Steve Simon		Department of Physics will confirm the status and arrangements for these lectures.

M.Sc IN MATHEMATICAL MODELLING AND SCIENTIFIC COMPUTING

CORE

A1 Applied PDEs	Prof. Andreas Münch		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture
A1 Supplementary Applied Mathematics	Dr Andrew Krause		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture
B1 Numerical Solution of Differential Equations I	Prof. Endre Süli		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture
B1 & B2 Numerical Linear Algebra	Prof. Yuji Nakatsukasa		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture
Practical Numerical Analysis	Dr Kathryn Gillow	M. 2 (wks 1-4) F. 10 (wks 1-4)	Mathematical Institute, L2
Mathematical Modelling	Prof. Philip Maini	M.2 (wks 5-8) F. 9-11 (wks 5-8)	Mathematical Institute, L2
Additional Skills	Dr Kathryn Gillow	M. 11-1	Mathematical Institute, L2
SPECIAL TOPICS			
Approximation of Functions	Prof. Nick Trefethen		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture
Further Mathematical Biology	Prof. Ruth Baker		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture
Integer Programming	Prof. Raphael Hauser		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture
Mathematical Geoscience	Prof. Ian Hewitt		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture
Mathematical Physiology	Prof. Andrew Fowler		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture
Perturbation Methods	Prof. Eamonn Gaffney		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture
Solid Mechanics	Prof. Alain Goriely		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture
Stochastic Differential Equations	Dr Benjamin Fehrman		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture
Theories of Deep Learning	Prof. Jared Tanner		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture
Topics in Fluid Mechanics	Prof. Andrew Fowler		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture

Viscous Flow	Prof. Paul Dellar		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture
M.Sc IN MATHEMATICAL SCIENCES			
The lectures below for MATHEMATICS Part C/OMMS all apply.			
M.Sc IN MATHEMATICS AND THE FOUNDATIONS OF COMPUTER SCIENCE			
An Introduction to LaTeX	Dr Richard Earl		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture
Section A: Mathematical Foundations			
Schedule I			
Algebraic Topology	Prof. Alexander Ritter		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture
Analytic Number Theory	Prof. James Maynard		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture
Analytic Topology	Dr Robin Knight		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture
Category Theory	Prof. Frances Kirwan		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture
Differentiable Manifolds	Prof. Jason Lotay		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture
Introduction to Representation Theory	Prof. Konstantin Ardakov		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture
Lie Algebras	Prof. Nikolay Nikolov		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture
Model Theory	Prof Ehud Hrushovski		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture
Topology and Groups	Prof. Ulrike Tillmann		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture
Schedule II			
Algebraic Geometry	Prof. Balazs Szendroi		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture
Homological Algebra	Prof. Kobi Kremnitzer		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture
Infinite Groups	Prof. Cornelia Drutu		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture
Section B: Applicable Theories			
Schedule I			
Categories Proofs and Processes	Dr Carmen Constantin		https://www.cs.ox.ac.uk/teaching/courses/2020-2021/catsproofsprocs Pre-recorded lecture
Computer Aided Formal Verification	Prof Tom Melham		https://www.cs.ox.ac.uk/teaching/courses/2020-2021/computeraidedverification/ Pre-recorded lecture
Foundations of Computer Science	Dr Egor Kostylev		https://www.cs.ox.ac.uk/teaching/courses/2020-2021/FOCS Pre-recorded lecture
Graph Theory	Dr Paul Balister		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture

B6.3 Integer Programming	Prof. Raphael Hauser		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture
CCS2 Quantum Processes and Computation	Prof Aleks Kissinger		Flipped classroom, pre recorded lectures, followed by live sessions 3 x 1 lectures https://www.cs.ox.ac.uk/teaching/courses/2020-2021/quantum
Schedule II			
Automata, Logic and Games	Prof Pavel Semukhin	M. 2 W. 2 Th. 2	Department of Computer Science
Combinatorics	Prof Alex Scott		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture
MATHEMATICS			
Prelims			
Introduction to University Mathematics	Dr Richard Earl	Week 1	Pre-recorded lecture available here: https://canvas.ox.ac.uk/courses/64592/pages/year-1-prelims
Introduction to Complex Numbers	Dr Vicky Neale	Week 1	Pre-recorded lecture available here: https://canvas.ox.ac.uk/courses/64592/pages/year-1-prelims
Linear Algebra I	Dr Richard Earl		Pre-recorded lecture available here: https://canvas.ox.ac.uk/courses/64592/pages/year-1-prelims
Geometry	Prof. Derek Moulton		Pre-recorded lecture available here: https://canvas.ox.ac.uk/courses/64592/pages/year-1-prelims
Analysis I	Dr Vicky Neale		Pre-recorded lecture available here: https://canvas.ox.ac.uk/courses/64592/pages/year-1-prelims
Introductory Calculus	Prof Colin Please		Pre-recorded lecture available here: https://canvas.ox.ac.uk/courses/64592/pages/year-1-prelims
Probability	Prof James Martin		Pre-recorded lecture available here: https://canvas.ox.ac.uk/courses/64592/pages/year-1-prelims
Computational Mathematics	Dr Estelle Massart		Pre-recorded lecture available here: https://canvas.ox.ac.uk/courses/64592/pages/year-1-prelims
Fridays@2	Various	Weeks 1,2,5,7	Live online session https://www.maths.ox.ac.uk/events/list/3463
Part A			
Linear Algebra	Prof. Alan Lauder		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture
Differential Equations 1	Prof. Melanie Rupflin		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture

Metric Spaces and Complex Analysis	Prof. Ben Green and Prof. Panos Papazoglou		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture
Probability	Prof Matthias Winkel		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture
Quantum Theory	Prof James Sparks		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture
Fridays@2	Various	Weeks 1,2,5,7	Live online session https://www.maths.ox.ac.uk/events/list/3463
Statistics Department Options information session		Week 5	Department of Statistics will confirm the status and arrangements for these lectures.
Part B			
B1.1 Logic	Prof. Jonathan Pila		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture
B2.1 Introduction to Representation Theory	Prof. Konstantin Ardakov		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture
B3.1 Galois Theory	Prof Damian Rössler		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture
B3.2 Geometry of Surfaces	Prof. Dominic Joyce		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture
B3.5 Topology and Groups	Prof. Ulrike Tillmann		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture
B4.1 Functional Analysis I	Prof. Melanie Rupflin		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture
B4.3 Distribution Theory	Prof. Jan Kristensen		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture
B5.2 Applied PDEs	Prof. Andreas Muench		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture
B5.3 Viscous Flow	Dr Paul Dellar		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture
B5.5 Further Mathematical Biology	Prof. Ruth Baker		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture
B6.1 Numerical Solution of Differential Equations I	Prof Endre Suli		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture
B6.3 Integer Programming	Prof. Raphael Hauser		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture
B7.1 Classical Mechanics	Prof. Lionel Mason		Ma Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture
B8.1 Probability, Measure and Martingales	Prof. Jan Obloj		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture
B8.5 Graph Theory	Dr Paul Balister		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture
BO1.1 History of Mathematics	Dr Christopher Hollings		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture

BSP: Structured Projects	Dr Cath Wilkins	Week 2 M. 3	Teams. Details to be provided to those registered.
SB1.1 Applied Statistics	Dr Neil Laws & F Windmeijer		Pre-recorded lecture available here: https://canvas.ox.ac.uk/courses/67002/pages/year-3-part-b
SB2.1 Foundations of Statistical Inference	Prof Julien Berestycki		Pre-recorded lecture available here: https://canvas.ox.ac.uk/courses/67002/pages/year-3-part-b
Statistical Lifetime Models	Prof David Steinsaltz		Pre-recorded lecture available here: https://canvas.ox.ac.uk/courses/67002/pages/year-3-part-b
BN1.1 Mathematics Education	Dr Nick Andrews		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture
101 Early Modern Philosophy: Descartes	Prof William Mander		Department of Philosophy will confirm the status and arrangements for these lectures.
101 Early Modern Philosophy: Hume	Prof Peter Millican		Department of Philosophy will confirm the status and arrangements for these lectures.
102 Knowledge and Reality: Epistemology	Prof Bernhard Salow		Department of Philosophy will confirm the status and arrangements for these lectures.
122 Philosophy of Mathematics	Prof Joel David Hamkins		Department of Philosophy will confirm the status and arrangements for these lectures.
Fridays@2	Various	F.2	Live online session https://www.maths.ox.ac.uk/events/list/3463
*An Introduction to LaTeX	Dr Richard Earl		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture
Part C / OMMS			
C1.1 Model Theory	Prof Ehud Hrushovski		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture
C1.3 Analytic Topology	Dr Robin Knight		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture
C2.1 Lie Algebras	Prof. Nikolay Nikolov		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture
C2.2 Homological Algebra	Prof. Kobi Kremnitzer		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture
C2.4 Infinite Groups	Prof. Cornelia Drutu		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture
C2.7 Category Theory	Prof. Frances Kirwan		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture
C3.1 Algebraic Topology	Prof. Alexander Ritter		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture
C3.3 Differentiable Manifolds	Prof. Jason Lotay		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture
C3.4 Algebraic Geometry	Prof. Balazs Szendroi		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture
C3.8 Analytic Number Theory	Prof. James Maynard		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture

C3.10: Additive and Combinatorial Number Theory	Joni Teravainen		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture
C4.1 Further Functional Analysis	Prof. Stuart White		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture
C4.3 Functional Analytic Methods for PDEs	Prof. Luc Nguyen		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture
C4.8 Complex Analysis: Conformal Maps and Geometry	Prof. Qian Wang		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture
C5.1 Solid Mechanics	Prof. Alain Goriely		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture
C5.5 Perturbation Methods	Prof. Eamonn Gaffney		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture
C5.7 Topics in Fluid Mechanics	Prof. Andrew Fowler		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture
C5.11 Mathematical Geoscience	Prof. Ian Hewitt		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture
C5.12 Mathematical Physiology	Prof. Andrew Fowler		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture
C6.1 Numerical Linear Algebra	Prof. Yuji Nakatsukasa		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture
C6.3 Approximation of Functions	Prof. Nick Trefethen		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture
C6.5 Theories of Deep Learning	Prof. Jared Tanner		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture
C7.1 Theoretical Physics	Dr A. Starinets and Dr S Parameswaran		Department of Physics to confirm details
C7.5 General Relativity I	Dr Joe Keir		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture
C8.1 Stochastic Differential Equations	Dr Benjamin Fehrman		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture
C8.3 Combinatorics	Prof Alex Scott		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture
Categories Proofs and Processes	Dr Carmen Constantin		https://www.cs.ox.ac.uk/teaching/courses/2020-2021/catsproofsprocs Pre-recorded lecture
CCS2 Quantum Processes and Computation	Prof Aleks Kissinger		Flipped classroom, pre recorded lectures, followed by live sessions 3 x 1 lectures https://www.cs.ox.ac.uk/teaching/courses/2020-2021/quantum
CCS3 Automata, Logic and Games	Prof Pavel Semukhin	M. 2 W. 2 Th. 2	Department of Computer Science
Graphical Models	R Evans		Pre-recorded lecture videos https://canvas.ox.ac.uk/courses/67002/pages/year-4-part-c

SC1 Stochastic Models in Mathematical Genetics	Prof Simon Myers		Pre-recorded lecture videos https://canvas.ox.ac.uk/courses/67002/pages/year-4-part-c
SC2 Probability and Statistics for Network Analysis	Prof Gesine Reinert		Pre-recorded lecture videos https://canvas.ox.ac.uk/courses/67002/pages/year-4-part-c
SC9 Probability on Graphs and Lattices	Dr Alessandra Caraceni and Dr Dominic Yeo		Pre-recorded lecture videos https://canvas.ox.ac.uk/courses/67002/pages/year-4-part-c
SC10 Algorithmic Foundations of Learning	Prof Patrick Rebeschini		Pre-recorded lecture videos https://canvas.ox.ac.uk/courses/67002/pages/year-4-part-c
Fridays@2	Various	Weeks 1,2,5,7	Live online session https://www.maths.ox.ac.uk/events/list/3463
*An Introduction to LaTeX	Dr Richard Earl		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture

*These lectures will be useful to students offering an Extended Essay or Dissertation.

COMPUTER SCIENCE

Prelims

Ethics and Responsible Innovation	Max Van Kleek and Helena Webb	Week 4,5,7,8 M. 11	Department of Computer Science https://www.cs.ox.ac.uk/teaching/courses/2020-2021/Ethics/
Functional Programming	Prof Geraint Jones		Pre-recorded supported by discussion sessions https://www.cs.ox.ac.uk/teaching/courses/2020-2021/fp
Discrete Mathematics	Prof David Kay		Pre recorded https://www.cs.ox.ac.uk/teaching/courses/2020-2021/discretemaths/
Linear Algebra	Prof Jonathan Whiteley	M.10, T.9, F.10 (weeks 1-4)	Department of Computer Science, LTA
Probability	Prof James Martin		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture

MATHEMATICS AND COMPUTER SCIENCE

Prelims

Ethics and Responsible Innovation	Max Van Kleek and Helena Webb	Week 4,5,7,8 M. 11	Department of Computer Science https://www.cs.ox.ac.uk/teaching/courses/2020-2021/Ethics/
Introduction to University Mathematics	Dr Richard Earl		Pre-recorded lecture available here: https://canvas.ox.ac.uk/courses/64592/pages/year-1-prelims
Introduction to Complex Numbers	Dr Vicky Neale		Pre-recorded lecture available here: https://canvas.ox.ac.uk/courses/64592/pages/year-1-prelims
Analysis I	Prof. Frances Kirwan		Pre-recorded lecture available here: https://canvas.ox.ac.uk/courses/64592/pages/year-1-prelims

Linear Algebra I	Dr Vicky Neale		Pre-recorded lecture available here: https://canvas.ox.ac.uk/courses/64592/pages/year-1-prelims
Probability	Prof James Martin		Pre-recorded lecture available here: https://canvas.ox.ac.uk/courses/64592/pages/year-1-prelims
COMPUTER SCIENCE			
Part A			
Core			
Compilers	Prof Andrzej Murawski	Tu. 9 Th. 9	Department of Computer Science https://www.cs.ox.ac.uk/teaching/courses/2020-2021/com
Models of Computation	Prof Rahul Santhanam		https://www.cs.ox.ac.uk/teaching/courses/2020-2021/modelsofcomputation/ Pre-recorded lecture
Part A / Part B			
Schedule S1			
Computer Security	Prof Michael Goldsmith & Prof Sadie Creese	Tu. 12 (wk 1-2) Tu. 2 (wk 1-3) W. 12 (wk1-7)	https://www.cs.ox.ac.uk/teaching/courses/2020-2021/security/
Computer Aided Formal Verification	Prof Tom Melham		Pre-recorded lectures https://www.cs.ox.ac.uk/teaching/courses/2020-2021/computeraidedverification/
Databases	Prof Michael Benedikt		Pre-recorded lectures https://www.cs.ox.ac.uk/teaching/courses/2020-2021/databases/
Machine Learning	Dr Ani Calinescu & Prof Phil Blunsom		TBC https://www.cs.ox.ac.uk/teaching/courses/2020-2021/ml/
Principles of Programming Languages	Dr Sam Staton		Pre-recorded lectures https://www.cs.ox.ac.uk/teaching/courses/2020-2021/principles/
Schedule S2			
Lectures under Mathematics Part B: B1.2, B8.4, B6.3 are applicable.			
Part C			
Schedule C1			
Automata, Logic and Games	Prof Pavel Semukhin	M. 2 W. 2 Th. 2	Department of Computer Science https://www.cs.ox.ac.uk/teaching/courses/2020-2021/automatalogicgames/
Categories Proofs and Processes	Dr Carmen Constantin		https://www.cs.ox.ac.uk/teaching/courses/2020-2021/catsproofsprocs Pre-recorded lecture
Computer Science and Law	Prof Rebecca Williams and Prof Tom Melham	Tu. 11-1	https://www.cs.ox.ac.uk/teaching/courses/2020-2021/LawandCS/
Concurrent Algorithms and Data Structures	Dr Hanno Nickau		Pre-recorded lecture https://www.cs.ox.ac.uk/teaching/courses/2020-2021/cads

Probabilistic Model Checking	Prof Alessandra Abate		Pre-recorded lecture https://www.cs.ox.ac.uk/teaching/courses/2020-2021/probabilistic
CCS2 Quantum Processes and Computation	Prof Aleks Kissinger		Flipped classroom, pre recorded lectures, followed by live sessions 3 x 1 lectures https://www.cs.ox.ac.uk/teaching/courses/2020-2021/quantum
MATHEMATICS & COMPUTER SCIENCE			
Part A			
Core			
Models of Computation	Prof Rahul Santhanam		https://www.cs.ox.ac.uk/teaching/courses/2020-2021/modelsofcomputation/ Pre-recorded lecture
[In addition, the lectures under Mathematics Part A, except Differential Equations I, are applicable.]			
Part A / Part B			
Schedule S1(M&CS)			
Compilers	Prof Andrzej Murawski	Tu. 9 Th. 9	Department of Computer Science https://www.cs.ox.ac.uk/teaching/courses/2020-2021/com
Computer Security	Prof Michael Goldsmith & Prof Sadie Creese	Tu. 12 (wk 1-2) Tu. 2 (wk 1-3) W. 12 (wk1-7)	https://www.cs.ox.ac.uk/teaching/courses/2020-2021/security/
Computer Aided Formal Verification	Prof Tom Melham		Pre-recorded lectures https://www.cs.ox.ac.uk/teaching/courses/2020-2021/computeraidedverification/
Databases	Prof Michael Benedikt		Pre-recorded lectures https://www.cs.ox.ac.uk/teaching/courses/2020-2021/databases/
Machine Learning	Dr Ani Calinescu & Prof Phil Blunsom		TBC https://www.cs.ox.ac.uk/teaching/courses/2020-2021/ml/
Principles of Programming Languages	Dr Sam Staton		Pre-recorded lectures https://www.cs.ox.ac.uk/teaching/courses/2020-2021/principles/
Schedule S2(M&CS)			
Lectures under Mathematics Part B: B1.1, B2.1, B3.1, B3.2, B3.5, B4.1, B6.1, B6.3, B8.1, B8.4, B8.5, are applicable. In addition you may apply to take other topics from the full list of Mathematics Department courses			
Part C			
Schedule C1 applies. Mathematics Part C lectures all apply under Schedule C2. See the handbook for recommended Mathematics options.			
MATHEMATICS AND PHILOSOPHY			
Prelims			
Mathematics:			
Introduction to University Mathematics	Dr Richard Earl		Pre-recorded lecture available here: https://canvas.ox.ac.uk/courses/67003/pages/year-1-prelims

Introduction to Complex Numbers	Dr Vicky Neale		Pre-recorded lecture available here: https://canvas.ox.ac.uk/courses/67003/pages/year-1-prelims
Linear Algebra I	Dr Vicky Neale		Pre-recorded lecture available here: https://canvas.ox.ac.uk/courses/67003/pages/year-1-prelims
Probability	Prof James Martin		Pre-recorded lecture available here: https://canvas.ox.ac.uk/courses/67003/pages/year-1-prelims
Analysis I	Prof. Frances Kirwan		Pre-recorded lecture available here: https://canvas.ox.ac.uk/courses/67003/pages/year-1-prelims
Introductory Calculus	Prof Colin Please		Pre-recorded lecture available here: https://canvas.ox.ac.uk/courses/67003/pages/year-1-prelims
Philosophy:			
General Philosophy	Prof Rachel Fraser		Department of Philosophy will confirm the status and arrangements for these lectures.
Introduction to Logic	Prof James Studd		Department of Philosophy will confirm the status and arrangements for these lectures.
Part A Mathematics:			
Linear Algebra	Prof. Alan Lauder		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture
Metric Spaces and Complex Analysis	Prof. Ben Green and Prof. Panos Papazoglou		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture
[These lectures are for compulsory subjects]			
Part B Mathematics			
B1.1 Logic	Prof. Jonathan Pila		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture
[These lectures are for the compulsory subject "Foundations". Other courses listed under mathematics Part B can be taken: see the Mathematics & Philosophy schedule of units.]			
Part B Philosophy:			
101 Early Modern Philosophy: Descartes	Prof William Mander		Department of Philosophy will confirm the status and arrangements for these lectures.
101 Early Modern Philosophy: Hume	Prof Peter Millican		Department of Philosophy will confirm the status and arrangements for these lectures.
102 Knowledge and Reality: Epistemology	Prof Bernhard Salow		Department of Philosophy will confirm the status and arrangements for these lectures.
122 Philosophy of Mathematics	Prof Joel David Hamkins		Department of Philosophy will confirm the status and arrangements for these lectures.
[For further Philosophy lectures, please consult the Philosophy lecture list]			
Part C Mathematics: Logic			
C1.1 Model Theory	Prof Ehud Hrushovski		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture

C1.3 Analytic Topology	Dr Robin Knight		Pre-recorded lecture available here: http://www.maths.ox.ac.uk/lecture-capture
[See Philosophy list for Philosophy subjects which may be offered.]			
MATHEMATICS AND STATISTICS			
Prelims			
The lectures above for MATHEMATICS Prelims all apply.			
Part A			
The lectures above for Mathematics Part A, on the compulsory subjects of Algebra, Analysis, and Differential Equations, all apply.			
Statistics Department Options information session		Week 5	Department of Statistics will confirm the status and arrangements for these lectures.
Part B			
SB1.1 Applied Statistics	Dr Neil Laws & F Windmeijer		Pre-recorded lecture videos https://canvas.ox.ac.uk/courses/67002/pages/year-3-part-b
SB2.1 Foundations of Statistical Inference	Prof Julien Berestycki		Pre-recorded lecture videos https://canvas.ox.ac.uk/courses/67002/pages/year-3-part-b
Statistical Lifetime Models	Prof David Steinsaltz		Pre-recorded lecture available here: https://canvas.ox.ac.uk/courses/67002/pages/year-3-part-b
[Other courses listed under Mathematics Part B can be taken: B1, B2, B3, B4, B5, B6, B7, B8]			
Part C			
SC1 Stochastic Models in Mathematical Genetics	Prof Simon Myers		Pre-recorded lecture available here: https://canvas.ox.ac.uk/courses/67002/pages/year-4-part-c
SC2 Probability and Statistics for Network Analysis	Prof Gesine Reinert		Pre-recorded lecture available here: https://canvas.ox.ac.uk/courses/67002/pages/year-4-part-c
SC9 Probability on Graphs and Lattices	Dr Alessandra Caraceni and Dr Dominic Yeo		Pre-recorded lecture available here: https://canvas.ox.ac.uk/courses/67002/pages/year-4-part-c
SC10 Algorithmic Foundations of Learning	Prof Patrick Rebeschini		Pre-recorded lecture available here: https://canvas.ox.ac.uk/courses/67002/pages/year-4-part-c
Graphical Models	R Evans		Pre-recorded lecture available here: https://canvas.ox.ac.uk/courses/67002/pages/year-4-part-c
[Other courses under Mathematics Part C can also be taken.]			

FOOTNOTE REFERENCES

- * Lectures begin on the first day possible after the beginning of Full Term (Sunday, 11 October), unless otherwise stated in this column. Events take place every Week of Full Term (Weeks 1–8) unless otherwise stated.