

MATHEMATICAL SCIENCES
DIVISION OF MATHEMATICAL AND PHYSICAL LIFE SCIENCES
Lecture List for Hilary Term 2023

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 **1 February 2023**

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 | | | |
| Algebra Seminar | Prof. Dan Ciubotaru | Tu.2 | L6, Mathematical Institute |
| Algebraic Geometry Seminar | Prof. Frances Kirwan, Prof Balazs Szendroi | Tu. 3:30–5 | C4, Mathematical Institute |
| Applied Topology Seminar | | F.3 | L4, Mathematical Institute |
| Combinatorics Seminar | Prof. Alex Scott | T. 2-3:30 | L4, Mathematical Institute |
| Computational Mathematics and Applications | Prof. Patrick Farrell, Prof. Yuji Nakatsukasa, Prof. Nick Trefethen | Th. 2 | L3, Mathematical Institute |
| Fridays@4 | Prof. Sam Cohen | F.4 | L1, Mathematical Institute |
| Functional Analysis | Prof. Stuart White | Tu. 4 | C3, Mathematical Institute |
| Geometric Group Theory | Prof. Dawid Kielak | Tu.3 | L3, Mathematical Institute |
| Geometry and Analysis | Prof Frances Kirwan and Prof. Guillem Cazassus | M. 2–3.30 | L4, Mathematical Institute |
| Industrial and Applied Mathematics | | Th.12 | L1, Mathematical Institute |
| Junior Geometry Seminar | George Cooper, Andres Ibanez Nunez, Gilles Englebert | Th. 3 (even weeks) | L6, Mathematical Institute |
| Junior Topology and Group Seminar | Adele Jackson | W.4 | L6, Mathematical Institute |
| Logic | Prof. Jonathan Pila, Prof Ehud. Hrushovski, Prof. Jochen Koenigsmann | Th. 5 | L3, Mathematical Institute |
| Mathematical and Computational Biology | Prof. Philip Maini, Dr Peter Minary | F. 2 | L3, Mathematical Institute |
| Mathematical Geoscience | Prof Ian Hewitt | F. 2 (even weeks) | L4, Mathematical Institute |
| Networks Seminar | Erik Hormann | Tu.2 | C4, Mathematical Institute |
| Nonlinear PDE | Prof. Gui-Qiang Chen | Th. 3:15–5:45 | C4, Mathematical Institute |
| Number Theory | Aleksander Horawa and Lasse Grimmelt | Th. 4 | L4, Mathematical Institute |
| Numerical Analysis Internal Seminar | Prof. Patrick Farrell, Prof. Yuji Nakatsukasa, Prof. Nick Trefethen | Tu. 2 (Weeks 2, 4, 6,8) | L3, Mathematical Institute |
| Oxford Data Science Seminar | Prof. Melanie Weber | M. 2 | L6, Mathematical Institute |
| Partial Differential Equations Seminar | Prof. Luc Nguyen, Prof. Andrea Modino, Prof. Qian Wang | M. 4.30 | L4, Mathematical Institute |
| OxPDE lunchtime seminar | Dr Ben Fehrman and Eliana Fausti | Th.12 | L3, Mathematical Institute |
| Quantum Field Theory | Chris Beem | Tu. 12–1:30 (even weeks) | L3, Mathematical Institute |
| Random Matrix Theory Seminar | Prof Jon Keating | Tu. 3.30 | L6, Mathematical Institute |
| Stochastic Analysis and Mathematical Finance Seminar | Prof. Rama Cont and Prof. Massimiliano Gubinelli | M. 3.30 | L1, Mathematical Institute |

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| String Theory | | M. 12:45-2 | L1, Mathematical Institute |
| Topology Seminar | Prof. Andre Henriques, Prof. Dawid Kielak and Prof. Andras Juhasz | M. 3:30 | L4, Mathematical Institute |
| Wolfson Centre for Mathematical Biology Journal Club | Prof. Philip Maini | M. 12 | L6, Mathematical Institute |
| Mathematical and Computational Finance Seminar | Prof. Rama Cont and Dr Anran Hu | Th. 4 (except Weeks 2 and 6) | L6, Mathematical Institute |
| Probability | Prof. Christina Goldschmidt | M. 2 | L3, Mathematical Institute |
| Stochastic Analysis Internal Seminar | Prof. Massimiliano Gubinelli | Tu. 12 | L3, Mathematical Institute |
| WORKSHOPS | | | |
| Industrial and Interdisciplinary Workshops | Prof. Chris Beward and Yixuan Sun | F. 9.45-11.15 | L6, Mathematical Institute |
| ADVANCED CLASSES | | | |
| Geometric Group Theory | Prof. Dawid Kielak | Tu. 15 | L3, Mathematical Institute |
| Logic | Prof Ehud Hrushovski | Th. 11 | C2, Mathematical Institute |
| Topology | Prof. Andre Henriques | M. 11-12:30 (Week 6 in C1, Week 8 11-12) | C2/C1 Mathematical Institute |
| GRADUATE LECTURES | | | |
| TAUGHT COURSE CENTRE | | | |
| <p>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</p> | | | |
| EPSRC CDT in MATHEMATICS OF RANDOM SYSTEMS | | | |
| C6.2 Continuous Optimisation | Prof. Yuji Nakatsukasa | Tu. 3 Th. 3 | L2, Mathematical Institute |
| C8.2 Stochastic Analysis and PDEs | Prof. Harald Oberhauser | W. 5 F. 5 | L3, Mathematical Institute |
| C8.4 Probabilistic Combinatorics | Prof. Oliver Riordan | M. 4 [L3] W. 4 (Week 2 only) [L5] Th. 4 (except Week 2) [L3] | L3/L5, Mathematical Institute |
| Optimisation for Data Science | Prof. Raphael Hauser | Tu. 12 Th. 12 | L2, Mathematical Institute |
| SC4 Advanced Topics in Statistical Machine Learning | Dr Tom Rainforth | W. 10 Th. 11 | Department of Statistics, LG.01 |
| See also the permitted electives offered by Imperial College London | | | |
| M.Sc IN MATHEMATICAL AND COMPUTATIONAL FINANCE | | | |
| Core Courses | | | |
| Stochastic Control | Prof. Michael Monoyios | Tu. 12 (Weeks 1-4) Th. 12 (Weeks 1-4) | L5, Mathematical Institute |
| Fixed Income and Credit | Prof. Blanka Horvath | M. 12 W. 12 | L5, Mathematical Institute |
| Quantitative Risk Management | Prof. Jan Obloj | M. 10-12 (Weeks 1, 3, 4) F. 2-4 (Week 2) | L5, Mathematical Institute |
| Deep Learning | Prof. Justin Sirignano | M. 9 W. 9 | L5, Mathematical Institute |
| Elective Courses | | | |

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| Advanced Monte Carlo Methods | Prof. Christoph Reisinger | Th. 10-12 (Weeks 1-4) | L5, Mathematical Institute |
| Advanced Numerical Methods | Prof. Christoph Reisinger | F. 11-1 (Weeks 1-4) | L5, Mathematical Institute |
| Advanced Volatility Modelling | Prof. Rama Cont (Weeks 1-4) | Tu. 10-12 | L5, Mathematical Institute |
| Asset Pricing | Dr Dan Jones | F. 9-11 (Weeks 1-2) M. 2-4 (Week 2) Th. 2-4 (Week 4) | L5, Mathematical Institute |
| Decentralised Finance | Dr Katia Babbar | W. 11 (Weeks 1-4) Th. 12 (Weeks 5-8) | L5, Mathematical Institute |
| Market Microstructure and Algorithmic Trading | Prof. Jan Obloj | Th. 10-12 (Weeks 6-8) F. 10-12 (Week 6) | L5, Mathematical Institute |
| Optimisation | Dr Elena Gal | Tu. 10-12 (Weeks 5-8) | L5, Mathematical Institute |
| Computer Programming | | | |
| Financial Computing with C++ II | Prof. Dmitry Kramkov | M. 10-12 (Weeks 6-8) M. 2-4 (Week 8) Tu. 2.30-4.30 (Week 7) Tu. 2-4 (Week 8) W. 10-12 (Weeks 6-8) Th. 2-4 (Week 6) F. 10-12 (Weeks 6-7) | L5, Mathematical Institute |
| M.Sc IN MATHEMATICAL AND THEORETICAL PHYSICS | | | |
| Advanced Fluid Dynamics | Prof Caroline Terquem and Prof Paul Dellar | M. 10 Tu. 12 | Dept of Physics, Lindemann |
| Advanced Quantum Field Theory | Dr Prateek Argawal | Tu. 11 Tu. 2-4 | Dept of Physics, Lindemann |
| Applied Complex Variables | Prof. Jon Chapman | Tu. 4 W. 4 | L3, Mathematical Institute |
| Collisionless Plasma Physics | Prof Plamen Ivanov | Th. 10 (Weeks 2-5) [Seminar Room] F. 3 (Weeks 2-5) [Fisher Room] | Dept of Physics, Seminar Room/Fisher Room |
| Cosmology | Prof David Alonso | W. 11-1 | Dept of Physics, Fisher Room |
| Galactic and Planetary Dynamics | Prof John Magorrian | Tu. 2-4 | Dept of Physics, Fisher Room |
| General Relativity II | Prof. Christopher Couzens | M. 11 F. 11 | L3, Mathematical Institute |
| Geometric Group Theory | Prof. Cornelia Drutu | Th. 12 F. 12 | L3, Mathematical Institute |
| Geophysical Fluid Dynamics | Prof Tim Woollings | Tu. 10 (Weeks 1-3) F. 10 (Weeks 1-3) | Dept of Physics, Dennis Sciama |
| Introduction to Quantum Information | Prof. Artur Ekert | M. 5 Tu. 5 | L3, Mathematical Institute |
| Nonequilibrium Statistical Physics | Prof. Ramin Golestanian | W. 3-5 (Weeks 1-4) Th. 4-6 (Weeks 1-4) | Dept of Physics, Lindemann |
| Radiative processes and High Energy Astrophysics | | W. 9 (Weeks 3 and 4) W. 12 (Weeks 5-8) Th. 10 F. 9 (Weeks 1-4) | Dept Physics, Dennis Sciama |
| Soft Matter Physics | Prof. Ard Louis | F. 11-1 | Dept of Physics, Fisher Room |
| String Theory I | Dr Ling Lin | Tu. 9 Th. 9 | L5, Mathematical Institute |
| Supersymmetry and Supergravity | Dr Christoph Uhlemann | Tu. 2 (L1) W. 11 | L6, Mathematical Institute |

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| Quantum Matter | Prof Steve Simon | F. 9-11 | Dept of Physics, Fisher Room |
| M.Sc IN MATHEMATICAL MODELLING AND SCIENTIFIC COMPUTING | | | |
| CORE | | | |
| A2 Nonlinear Systems | Prof. Jon Chapman | Tu. 9 F. 9 | L3, Mathematical Institute |
| A2 Further Mathematical Methods | Prof. Pete Grindrod | W. 2 (Weeks 5-8) Th. 2 (Weeks 5-8) | L6, Mathematical Institute |
| A2 Further Partial Differential Equations | Prof. Ian Griffiths | W. 10 | L6, Mathematical Institute |
| B2 Continuous Optimisation | Prof. Yuji Nakatsukasa | Tu. 3 Th. 3 | L2, Mathematical Institute |
| Case Studies in Mathematical Modelling | Prof. Philip Maini | W. 12 (Week 1) F. 12 (Week 8) | L1, Mathematical Institute |
| Case Studies in Scientific Computing | Dr Kathryn Gillow | M. 2 (Week 1) | L5, Mathematical Institute |
| SPECIAL TOPICS | | | |
| Applied Complex Variables | Prof. Jon Chapman | Tu. 4 W. 4 | L3, Mathematical Institute |
| Computational Algebraic Topology | Prof. Vidit Nanda | M. 9 [L3] Th. 9 [L4] | L3/L4, Mathematical Institute |
| Finite Element Methods for Partial Differential Equations | Prof. Endre Suli | M. 10 Th. 10 | L6, Mathematical Institute |
| Mathematical Mechanical Biology | Prof. Derek Moulton | Tu. 10 (except Week 7) [L6, Week 8 in L4] Tu. 12 (Week 7) [L3] F. 10 [L3] | L3/L4/L5, Mathematical Institute |
| Mathematical Models of Financial Derivatives | Prof. Alvaro Cartea | M. 4 F. 4 | L2, Mathematical Institute |
| Optimisation for Data Science | Prof. Raphael Hauser | Tu. 12 Th. 12 | L2, Mathematical Institute |
| Stochastic Modelling of Biological Processes | Prof. Radek Erban | M. 12 Th. 11 | L3, Mathematical Institute |
| Waves and Compressible Flow | Prof. Peter Howell | M. 3 Th. 4 | L2, Mathematical Institute |
| 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 | | | |
| Section A: Mathematical Foundations | | | |
| Schedule I | | | |
| Algebraic Number Theory | Prof. Victor Flynn | M. 3 W. 12 | L3, Mathematical Institute |
| Commutative Algebra | Prof. Damian Rossler | W. 10 Th. 10 | L3, Mathematical Institute |
| C1.2 Gödel's Incompleteness Theorems | Prof. Robin Knight | M. 12 [L4] W. 12 [L2] | L2/L4, Mathematical Institute |
| Lambda Calculus and Types | Prof. Bartek Klin | M. 3 (Week 4) M. 4 F. 4 | See Department of Computer Science for arrangements |
| Lie Groups | Prof. Dan Ciubotaru | M. 10 Tu. 10 Th. 3 (Week 8) | L4, Mathematical Institute |
| Schedule II | | | |
| Axiomatic Set Theory | Prof. Rolf Suabedissen | M. 9 Th. 9 | L6, Mathematical Institute |
| Geometric Group Theory | Prof. Cornelia Drutu | Th. 12 F. 12 | L3, Mathematical Institute |

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| Introduction to Schemes | Dr Jay Swar | M. 2 [L2] W. 2 [L4] (Weeks 1-4, L6) | L2/L4/L6, Mathematical Institute |
| Non-commutative Rings | Prof. Nikolay Nikolov | M. 3 [L6] F. 4 [L3] | L3/L6, Mathematical Institute |
| Representation Theory of Semisimple Lie Algebras | Prof. Andre Henriques | W. 3 F. 3 | L6, Mathematical Institute |
| Section B: Applicable Theories | | | |
| Schedule I | | | |
| Computational Complexity | Prof. Paul Goldberg | Tu. 10 Th. 10 | See Department of Computer Science for arrangements |
| Schedule II | | | |
| Computational Algebraic Topology | Prof. Vidit Nanda | M. 9 [L3] Th. 9 [L4] | L3/L4, Mathematical Institute |
| Computational Game Theory | Prof. Michael Wooldridge | Th. 2-4 (Weeks 1-4) Th. 3 (Weeks 5-8) F. 3 | See Department of Computer Science for arrangements |
| Elliptic Curves | Prof. Alan Lauder | Tu. 9 W. 9 | L6, Mathematical Institute |
| Probabilistic Combinatorics | Prof. Oliver Riordan | M. 4 [L3] W. 4 (Week 2 only) [L5] Th. 4 (except Week 2) [L3] | L3/L5, Mathematical Institute |
| Quantum Software | Prof. Aleks Kissinger | M. 4 W. 4 F. 4 | See Department of Computer Science for arrangements |
| Quantum compositional distributional meaning | Prof. Bob Coecke | F. 11 (Weeks 2-8) | 17 Beaumont Street |
| MATHEMATICS | | | |
| Prelims | | | |
| I: Linear Algebra II | Prof. James Maynard | M. 10 (Weeks 1-4) F. 10 (Weeks 1-4) | L1, Mathematical Institute |
| I: Groups and Group Actions | Prof. Nikolay Nikolov | M. 10 (Weeks 5-8) F. 10 (Weeks 5-8) | L1, Mathematical Institute |
| II: Analysis II | Prof. Paul Balister | Tu. 10 W. 10 | L1, Mathematical Institute |
| IV: Dynamics | Prof. Eamonn Gaffney | Tu. 9 Th. 10 | L1, Mathematical Institute |
| V: Multivariable Calculus | Prof. Sarah Waters | M. 9 W. 9 | L1, Mathematical Institute |
| V: Fourier Series and PDEs | Prof. Philip Maini | Th. 9 F. 9 | L1, Mathematical Institute |
| Computational Mathematics | Dr Kathryn Gillow | Tu. 11 (Weeks 1-2) | L1, Mathematical Institute |
| Fridays@2 | | F. 2 | L1, Mathematical Institute |
| Part A | | | |
| A3: Rings and Modules | Prof. Tom Sanders | Tu. 9 F. 9 | L2, Mathematical Institute |
| A4: Integration | Prof. Stuart White | M. 11 Th. 11 | L1, Mathematical Institute |
| A5: Topology | Prof. Panagiotis Papazoglou | W. 11 F. 11 | L2, Mathematical Institute |
| A6: Differential Equations 2 | Prof. Ian Hewitt | M. 9 F. 10 | L2, Mathematical Institute |
| A7: Numerical Analysis | Prof. Andy Wathen | Tu. 11 W. 10 | L2, Mathematical Institute |
| A9: Statistics | Prof. Neil Laws | M. 10 Th. 9 | L2, Mathematical Institute |
| A10: Waves and Fluids | Prof. Dominic Vella | Tu. 10 | L2, Mathematical Institute |

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| ASO: Integral Transforms | Prof. Sam Howison | Tu. 4 (Weeks 1-4) W. 9 (Weeks 1-4) | L2, Mathematical Institute |
| Fridays@2 | | F. 2 | L1, Mathematical Institute |
| Part B | | | |
| B1.1 Logic | Prof. Jochen Koenigsmann | W. 9 Th. 9 | L3, Mathematical Institute |
| B2.2 Commutative Algebra | Prof. Damian Rossler | W. 10 Th. 10 | L3, Mathematical Institute |
| B3.3 Algebraic Curves | Prof. Dominic Joyce | M. 5 [L2] Tu. 11 [L3] | L2/L3, Mathematical Institute |
| B3.4 Algebraic Number Theory | Prof. Victor Flynn | M. 3 W. 12 | L3, Mathematical Institute |
| B4.2 Functional Analysis II | Prof. Grigory Seregin | M. 11 [L2] W. 11 [L3] | L2/L3, Mathematical Institute |
| B4.4: Fourier Analysis | Prof. Jan Kristensen | Tu. 4 [L1] (Weeks 3, 5, 6 in L4) W. 4 [L1] | L1/L4, Mathematical Institute |
| B5.1 Stochastic Modelling of Biological Processes | Prof. Radek Erban | M. 12 Th. 11 | L3, Mathematical Institute |
| B5.4 Waves and Compressible Flow | Prof. Peter Howell | M. 3 Th. 4 | L2, Mathematical Institute |
| B5.6 Nonlinear Systems | Prof. Jon Chapman | Tu. 9 F. 9 | L3, Mathematical Institute |
| B6.2 Optimisation for Data Science | Prof. Raphael Hauser | Tu. 12 Th. 12 | L2, Mathematical Institute |
| B7.2 Electromagnetism | Dr Erik Panzer | M. 2 [L1] Th. 2 [L2] (Week 1 in L1) | L1/L2, Mathematical Institute |
| B7.3 Further Quantum Theory | Prof. Chris Beem | M. 10 Tu. 10 | L3, Mathematical Institute |
| B8.2 Continuous Martingales and Stochastic Calculus | Prof. Dmitry Belyaev | Th. 3 F. 3 | L3, Mathematical Institute |
| B8.3 Mathematical Models of Financial Derivatives | Prof. Alvaro Cartea | M. 4 F. 4 | L2, Mathematical Institute |
| BO1.1 History of Maths | Prof. Christopher Hollings | F. 10-11:30 (Class 1) F. 11:30-1 (Class 2) | C2, Mathematical Institute |
| BSP Structured Projects | Dr Cath Wilkins | M. 4 (Week 1 only) | L6, Mathematical Institute |
| SB1.2 Computational Statistics | Prof. Frank Windmeijer and Dr Rob Cornish | Tu. 2 (Weeks 1-7) [LG.02] Th. 2 (Weeks 1-6) [LG.01] | Department of Statistics, LG.01/LG.02 |
| SB1.2 Computational Statistics Practical | Prof. Frank Windmeijer and Dr Rob Cornish | W. 2-3:30 (Weeks 4 and 8) | Department of Statistics, LG.02 |
| SB2.2 Statistical Machine Learning | Prof. François Caron | M. 9 F. 12 | Department of Statistics, LG.01 |
| SB3.1 Applied Probability | Prof. Christina Goldschmidt | Tu. 10 F. 10 | Department of Statistics, LG.01 |
| OCS1 Lambda Calculus and Types | Prof. Bartek Klin | M. 3 (Week 4) M. 4 F. 4 | See Department of Computer Science for arrangements |
| OCS2 Computational Complexity | Prof. Paul Goldberg | T. 10 Th. 10 | See Department of Computer Science for arrangements |
| 101 Early Modern Philosophy: Descartes | Prof. Paul Lodge | T. 10 | Rad. Hum. (Lecture Room) |
| 101 Early Modern Philosophy: Locke and Berkeley | Prof. Anita Avramides | W. 10 | Rad. Hum. (Lecture Room) |

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| 101 Early Modern Philosophy: Leibniz | Prof. Gonzalo Rodriguez-Pereyra | M. 2 | Exam Schools (Room 2) |
| 102 Knowledge and Reality: Metaphysics | Prof. Nicholas Jones | Th. 10 (except Week 8) Th. 9 (Week 8 only) | Schools (North School) <i>except</i> Week 3: Sheldonian Theatre |
| Fridays@2 | | F. 2 | L1, Mathematical Institute |
| Part C/OMMS | | | |
| C1.2 Gödel's Incompleteness Theorems | Prof. Robin Knight | M. 12 [L4] W. 12 [L2] | L2/L4, Mathematical Institute |
| C1.4 Axiomatic Set Theory | Prof. Rolf Suabedissen | M. 9 Th. 9 | L6, Mathematical Institute |
| C2.3 Representation Theory of Semisimple Lie Algebras | Prof. Andre Henriques | W. 3 F. 3 | L6, Mathematical Institute |
| C2.5 Non-commutative Rings | Prof. Nikolay Nikolov | M. 3 [L6] F. 4 [L3] | L3/L6, Mathematical Institute |
| C2.6 Introduction to Schemes | Dr Jay Swar | M. 2 [L2] W. 2 [L4] (Weeks 1-4, L6) | L2/L4/L6, Mathematical Institute |
| C3.2 Geometric Group Theory | Prof. Cornelia Drutu | Th. 12 F. 12 | L3, Mathematical Institute |
| C3.5 Lie Groups | Prof. Dan Ciubotaru | M. 10 Tu. 10 Th. 3 (Week 8) | L4, Mathematical Institute |
| C3.7 Elliptic Curves | Prof. Alan Lauder | Tu. 9 W. 9 | L6, Mathematical Institute |
| C3.8 Analytic Number Theory | Prof. James Maynard | W. 11 [L1] (Week 1 in L4) Th. 11 [L2] | L1/L2, Mathematical Institute |
| C3.9 Computational Algebraic Topology | Prof. Vidit Nanda | M. 9 [L3] Th. 9 [L4] | L3/L4, Mathematical Institute |
| C3.11 Riemannian Geometry | Prof. Jason Lotay | W. 10 F. 10 | L4, Mathematical Institute |
| C3.12 Low-Dimensional Topology and Knot Theory | Prof. Andras Juhasz | Tu. 2 [L2] Th. 2 (Weeks 1-4 in L6, Weeks 5, 7, 8 in L1, Week 6 in L4) | L2/L6/L4, Mathematical Institute |
| C4.4 Hyperbolic Equations | Prof. Gui-Qiang Chen | M. 12 [L2] W. 12 [L6] | L2/L6, Mathematical Institute |
| C4.6 Fixed Point Methods for Nonlinear PDEs | Prof. Andrea Mondino | Tu. 11-1 | L4, Mathematical Institute |
| C4.9 Optimal Transport and PDEs | Prof. Jose Carrillo De La Plata | F. 11-1 | L4, Mathematical Institute |
| C5.6 Applied Complex Variables | Prof. Jon Chapman | Tu. 4 W. 4 | L3, Mathematical Institute |
| C5.9 Mathematical Mechanical Biology | Prof. Derek Moulton | Tu. 10 (except Week 7) [L6, Week 8 in L4] Tu. 12 (Week 7) [L3] F. 10 [L3] | L3/L4/L5, Mathematical Institute |
| C6.2 Continuous Optimisation | Prof. Yuji Nakatsukasa | Tu. 3 Th. 3 | L2, Mathematical Institute |
| C6.4 Finite Element Methods for Partial Differential Equations | Prof. Endre Suli | M. 10 Th. 10 | L6, Mathematical Institute |
| C7.4 Introduction to Quantum Information | Prof. Artur Ekert | M. 5 Tu. 5 | L3, Mathematical Institute |
| C7.6 General Relativity II | Prof. Christopher Couzens | M. 11 F. 11 | L3, Mathematical Institute |
| C7.7 Random Matrix Theory | Prof. Jon Keating | W. 2-4 | L3, Mathematical Institute |
| C8.2 Stochastic Analysis and PDEs | Prof. Harald Oberhauser | W. 5 F. 5 | L3, Mathematical Institute |

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| C8.4 Probabilistic Combinatorics | Prof. Oliver Riordan | M. 4 [L3] W. 4 (Week 2 only) [L5] Th. 4 (except Week 2) [L3] | L3/L5, Mathematical Institute |
| SC4 Advanced Topics in Statistical Machine Learning | Dr Tom Rainforth | W. 10 Th. 11 | Department of Statistics, LG.01 |
| SC5 Advanced Simulation Methods | Dr Gonzalo Mena and Dr Jun Yang | M. 11 W. 2 | Department of Statistics, LG.01 |
| SC7 Bayes Methods | Prof. Geoff Nicholls | Tu. 11 Th. 9 | Department of Statistics, LG.01 |
| SC8 Topics in Computational Biology | Prof. Jotun Hein | M. 12 F. 9 | Department of Statistics, LG.01 |
| Fridays@2 | | F.2 | L1, Mathematical Institute |
| MATHEMATICS AND COMPUTER SCIENCE | | | |
| See the times published by the Dep. of Computer Science http://www.cs.ox.ac.uk/teaching/timetables/ | | | |
| MATHEMATICS AND PHILOSOPHY | | | |
| Prelims | | | |
| Mathematics: | | | |
| I: Linear Algebra II | Prof. James Maynard | M. 10 (Weeks 1-4) F. 10 (Weeks 1-4) | L1, Mathematical Institute |
| I: Groups and Group Actions | Prof. Nikolay Nikolov | M. 10 (Weeks 5-8) F. 10 (Weeks 5-8) | L1, Mathematical Institute |
| II: Analysis II | Prof. Paul Balister | Tu. 10 W. 10 | L1, Mathematical Institute |
| Philosophy: | | | |
| Elements of Deductive Logic | Prof Alex Paseau | Tu. 12 | L1, Mathematical Institute |
| Part A | | | |
| Mathematics: | | | |
| A3: Rings and Modules | Prof. Tom Sanders | Tu. 9 F. 9 | L2, Mathematical Institute |
| A4: Integration | Prof. Stuart White | M. 11 Th. 11 | L1, Mathematical Institute |
| A5: Topology | Prof. Panagiotis Papazoglou | W. 11 F. 11 | L2, Mathematical Institute |
| Part B | | | |
| Mathematics: | | | |
| [These lectures are for the compulsory subjects. Other courses listed under mathematics Part B can be taken; see the Mathematics and Philosophy course schedules] | | | |
| B1.1 Logic | Prof. Jochen Koenigsmann | W. 9 Th. 9 | L3, Mathematical Institute |
| Philosophy: | | | |
| [For further Philosophy lectures, please consult the Philosophy lecture list https://www.philosophy.ox.ac.uk/lectures] | | | |
| 101 Early Modern Philosophy: Descartes | Prof. Paul Lodge | T. 10 | Rad. Hum. (Lecture Room) |
| 101 Early Modern Philosophy: Locke and Berkeley | Prof. Anita Avramides | W. 10 | Rad. Hum. (Lecture Room) |
| 101 Early Modern Philosophy: Leibniz | Prof. Gonzalo Rodriguez-Pereyra | M. 2 | Exam Schools (Room 2) |
| 102 Knowledge and Reality: Metaphysics | Prof. Nicholas Jones | Th. 10 (except Week 8) Th. 9 (Week 8 only) | Schools (North School) <i>except</i> Week 3: Sheldonian Theatre |
| Part C | | | |
| Mathematics: | | | |
| [These lectures are for the Logic subjects. Other courses listed under mathematics Part C can be taken; see the Mathematics and Philosophy course schedules] | | | |
| C1.2 Gödel's Incompleteness Theorems | Prof. Robin Knight | M. 12 [L4] W. 12 [L2] | L4, Mathematical Institute |

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| C1.4 Axiomatic Set Theory | Prof. Rolf Suabedissen | M. 9 Th. 9 | L6, Mathematical Institute |
| Philosophy: [See Philosophy list for Philosophy subjects which may be offered.] | | | |
| MATHEMATICS AND STATISTICS | | | |
| Prelims | | | |
| The lectures above for MATHEMATICS Prelims all apply. | | | |
| Part A | | | |
| A12: Simulation and Statistical Programming | Prof. Julien Berestycki | Tu. 12 (except Week 4) W. 12 (Week 4 only) F. 2-4 | Department of Statistics, LG.01 |
| The lectures above for Mathematics Part A all apply. | | | |
| Part B | | | |
| SB1.2 Computational Statistics | Prof. Frank Windmeijer and Dr Rob Cornish | Tu. 2 (Weeks 1-7) [LG.02] Th. 2 (Weeks 1-6) [LG.01] | Department of Statistics, LG.01/LG.02 |
| SB1.2 Computational Statistics Practical | Prof. Frank Windmeijer and Dr Rob Cornish | W. 2-3:30 (Weeks 4 and 8) | Department of Statistics, LG.02 |
| SB2.2 Statistical Machine Learning | Prof. François Caron | M. 9 F. 12 | Department of Statistics, LG.01 |
| SB3.1 Applied Probability | Prof. Christina Goldschmidt | Tu. 10 F. 10 | Department of Statistics, LG.01 |
| [Other courses listed under Mathematics Part B can also be taken] | | | |
| Part C | | | |
| SC4 Advanced Topics in Statistical Machine Learning | Dr Tom Rainforth | W. 10 Th. 11 | Department of Statistics, LG.01 |
| SC5 Advanced Simulation Methods | Dr Gonzalo Mena and Dr Jun Yang | M. 11 W. 2 | Department of Statistics, LG.01 |
| SC7 Bayes Methods | Prof. Geoff Nicholls | Tu. 11 Th. 9 | Department of Statistics, LG.01 |
| SC8 Topics in Computational Biology | Prof. Jotun Hein | M. 12 F. 9 | Department of Statistics, LG.01 |
| [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, 15 January), unless otherwise stated in this column. Events take place every Week of Full Term (Weeks 1–8) unless otherwise stated.