Module lists for 2013/14

Please Note: This list is correct at time of publishing for module availability in 2013/14. However, students are advised to contact departments directly if they are interested in studying a particular non-Complexity Module, to ensure that it is still timetabled for 2013/14

F3P4 MSc in Complexity Science

Core

CO907-12 Quantifying correlation and Spatio-Temporal Complexity CO901-12 Networks, Self-Organisation and Emergence CO904-12 Statistical Mechanics and its Applications to Complexity Science CO903-12 Complexity and chaos in dynamical systems

Options (take at least 3, totaling to at least 48 CATS)

CO902-12 Probabilistic & Statistical Inference CO923-18 Computational Methods for Complex Systems. CH926-12 Molecular Modeling CH927-12 Quantitative Biology EC941-15 Game Theory CY903-12 Practical Algorithms and Data Structures

Some possible unusual options (requires approval of director)(no guarantees about timetabling!)

MA4G4-18 Introduction to Theoretical Neuroscience MA4E7-18 Population Dynamics: Ecology and Epidemiology MA913-12 Scientific Computing ST911-12 Fundamentals of Modern Statistical Inference ST417-15 Topics in Applied Probability ES93Q-12 Systems Modeling & Simulation EC980-18 Topics in Economic Theory PS918-18 Psychological Models of Economic Choice PS919-18 Economic and Psychological Science CS904-15 Computational Biology CS409-15 Algorithmic Game Theory PX441-15 Quantum Theory of Interacting Particles CY901-12 High Performance Scientific Computing IM903-12 Complexity in the Social Sciences

Other modules from MASDOC, Systems Biology, Engineering, Economics, Psychology, Statistics, MOAC, Computer Science...

F3P6&7 MSc in Complex Systems Science year 1

(Must pass minimum of 37.5 ECTS of taught credit to grade C or above in M1 year) (1ECTS = 2 CATs)

Optional Core (take at least 3 but 4 is preferred)

(a) CO903-12 Complexity and chaos in dynamical systems

(b) CO901-12 Networks, Self-organisation and Emergence

(c) C0907-12 Quantifying correlation and spatio-temporal complexity

(d) C0902-12 Probabilistic & statistical inference

Options (take at least 39 CATS)

4th module from the optional core

CO923-18 Computational Methods for Complex Systems. CH926-12 Molecular Modeling CH927-12 Quantitative Biology CO904-12 Statistical Mechanics and its Applications to Complex Systems CY901-12 High Performance Scientific Computing CY903-12 Practical Algorithms and Data Structures

Unusual options (requires approval of director) See options and unusual options list for F3P4

F3P6&7 MSc in Complex Systems Science year 2

(Must pass minimum of 30 ECTS of taught credit at grade C or above in M2 year and total of 70 Taught ECTS credit over M1 and M2 combined) (1ECTS = 2 CATs)

Options

MA5Q3-18 Topics in Complexity Science CO923-18 Computational Methods for Complex Systems. CO904-12 Statistical mechanics and its Applications to Complex Systems CH926-12 Molecular Modeling CS904-15 Computational Biology MA4G4-18 Introduction to Theoretical Neuroscience MA4E7-18 Population Dynamics: Ecology and Epidemiology MA913-12 Scientific Computing ST911-12 Fundamentals of Modern Statistical Inference CY901-12 High Performance Scientific Computing CY903-12 Practical Algorithms and Data Structures IM903-12 Complexity in the Social Sciences

Unusual options (requires approval of director) See options and unusual options list for F3P4, but must qualify as M2 standard.