MSc STATISTICS (including Medical Statistics) and MSc DATA SCIENCE
Foundation Course Timetable 18 September – 29 September 2017

The course will consist of the sessions below. These sessions will be based mainly on the books Mathematical Statistics and Data Analysis by J A Rice and Introduction to Probability Models by S M Ross. Students should all have a copy of the former. Most of the academic sessions will consist of an informal introductory revision lecture, individual exercises and/or group discussion of examples. MSc Statistics students (including those on the Medical Statistics pathway) should attend all sessions, unless otherwise stated. MSc Data Science students should attend all the sessions highlighted in yellow.

Lecturers / speakers: Niloufar Abourashchi (NA), Richard Chandler (REC), Codina Cotar (CC), Maria De Iorio (MDI), Tom Fearn (TF), Chandrima Ghosh (CG), Simon Harden (SH), Christian Hennig (CH), Hilde Herbots (HH), Tom Honnor (TH), Elinor Jones (EJ), Franz Király (FK), Paul Northrop (PN), Aidan O’Keefe (AOK), Yvo Pokern (YP), Afzal Siddiqui (AS), Ardo van den Hout (AVDH), Jinghao Xue (JX), Chakkapas Visavakul (CV).

Monday 18 September

10:00 – 13:00 Welcome talk, including basic information (CC and CG)
Location: Bedford Way (26) G03

14:15 – 14:30 Introduction to UCL computing services (CV)
Location: Bedford Way (26) G03

14:30 – 17:00 Probability and Random Variables, Ch. 1-2. (YP)
Location: Bedford Way (26) G03

Tuesday 19 September

10:00 – 13:00 Joint and conditional distributions and expectations, ch. 3-5. (PN)
Location: Bedford Way (26) G03

14:30 – 17:00 Joint and conditional distributions and expectations, ch. 3-5 (continued). (AS)
Location: Bedford Way (26) G03

Wednesday 20 September

09:30 Enrollment - Gower Street Site. You should have pre-enrolled already on-line and have your IS access. You must bring your passport and any visa you need to stay in the UK to confirm your identity before you are enrolled. You will be given a statement to confirm your enrolment and will then be directed to collect your UCL student ID card.

11:30 – 13:00 Normal Theory and applications, Ch. 6. (JX)
Location: Bedford Way (26) G03

14:30 – 17:00 Methods of estimation. Ch. 8.1 – 8.5 (AOK)
Location: Bedford Way (26) G03

Thursday 21 September

10:00 – 11:30 Descriptive statistics, Ch.10 (CH)
Location: Bedford Way (26) G03

12:00 – 12:30 STATG019 Selected Topics in Statistics (CH and FK)
Location: Bedford Way (26) G03

15:15 – 18:00 R session – G3 Workshop (SH and AVDH)
Location: Christopher Ingold G20 (61 students) and Torrington Place 113 (65 students)

Friday 22 September (largely free for the International Student Orientation Programme)

11:00 -13:00 STATG012 test: only for MSc Statistics students (excluding the Medical Statistics pathway) who wish to replace this module by another one.
Location: Torrington Place (1-19) Room 102

16:00 – 18:00 Party for MSc and PhD students based in the Department of Statistical Science
Location: Pearson Library, Room 116, 1-19 Torrington Place

Monday 25 September

10:00 – 13:00 Introduction to significance tests. Ch. 11.2, 11.3 (CC)
Location: Birkbeck Malet Street B36

14:30 – 17:00 Categorical data and $x^2$ - tests. Ch. 13.1 – 13.4 (TF)
Location: Bedford Way (26) G03

Tuesday 26 September

10:00 – 13:00 Simple Linear regression and least squares, Ch. 14.1 – 14.2 (TH)
Location: Bedford Way (26) G03

14:00 – 14:15 UCL Environmental Sustainability (Elizabeth Moore)
Location: Bedford Way (26) G03

14:30 – 17:00 Bayesian Workshop Ch. 15.3 (optional for MSc Data Science students) (REC)
Location: Bedford Way (26) G03

Wednesday 27 September

11:30 – 12:00 Central IT Services Induction: further information can be found at http://www.ucl.ac.uk/isd/students/new-students/inductions
Location: Roberts Building G08 Sir David Davies LT

12:00 – 12:30 Introduction to UCL Careers (Raj Sidhu)
Location: Medical Sciences 131 A V Hill LT

14:00 – 17:00 Introduction to Stochastic Processes (optional for MSc Data Science students) (EJ)
Location: Medical Sciences 131 A V Hill LT

Thursday 28 September

10:00 – 12:30 Poisson processes and further applied probability (NA)
Location: Bedford Way (26) G03

13:30 – 15:30 Problem Class (CC)
Location: Bedford Way (26) G03

Friday 29 September

10:00 – 11:00 Zero Tolerance - Harassment workshop – GROUP 1 (UCLU Zero Tolerance Project Team)
Location: Birkbeck Malet Street B35

11:00 – 12:00 Zero Tolerance - Harassment workshop – GROUP 2 (UCLU Zero Tolerance Project Team)
Location: Birkbeck Malet Street B35

16:00 – 17:30 MAPS Faculty Welcome
Location: Roberts Building – 106