MSc Statistics (Including Medical Statistics) and MSc Data Science
Foundation Course Timetable – 16 September – 27 September 2019

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 should attend all the sessions in italics.

Lecturers / speakers: Niloufar Abrourashchi (NA), Gianluca Bai (GB), Francois-Xavier Briol (FXB), Richard Chandler (REC), Codina Cotar (CC), Petros Dellaportas (PD), Alex Donov (AD), Simon Harden (SH), Tom Honnor (TH), Ioanna Manolopoulou (IM), Giampiero Marra (GM), Paul Northrop (PN), Yvo Pokern (YP), Matina Rassias (MR), Kayvan Sadeghi (KS), Ricardo Silva (RS), Agnes Somogyi (AS), Chakkapas Visavakul (CV), Tengyao Wang (TW), Alex Watson (AW)

Please note: International Student Orientation takes place for postgraduates in the week beginning 16 September: https://www.ucl.ac.uk/students/international-students/sisop/schedule/graduates

Monday 16 September

10:00 – 13:00 Welcome talk, including basic information (CC, REC & AS)
  Location: Cruciform Building B404 - LT2

14:15 – 14:30 Central IT Services induction.
  Further information can be found at https://www.ucl.ac.uk/it/essential-for-new-students
  Location: Cruciform Building B404 - LT2

14:30 – 17:00 Probability and Random Variables, Ch. 1-2. (FXB)
  Location: Cruciform Building B404 - LT2

Tuesday 17 September

10:00 – 13:00 Joint and conditional distributions and expectations, Ch. 3-5. (IM)
  Location: Cruciform Building B404 - LT2

14:30 – 17:00 Joint and conditional distributions and expectations, Ch. 3-5 (continued). (KS)
  Location: Cruciform Building B404 - LT2

Wednesday 18 September

10:00 – 10:15 Introduction to UCL computing services (CV)
  Location: Torrington (1-19) G12

10:30 – 12:00 Normal Theory and applications Ch. 6 (TW)
  Location: Torrington (1-19) G12

13:30 – 16:00 Methods of estimation. Ch. 8.1 – 8.5 (TH)
  Location: Torrington (1-19) G12

Thursday 19 September

09:00 – 11:00 Problem Class for the Methods of Estimation lecture (AW)
  Location: Cruciform Building B404 - LT2

12:00 – 14:00 Descriptive statistics, Ch.10 (GB)
  Location: Cruciform Building B404 – LT2

15:00 – 18:00 R session – STAT0030 Statistical Computing Workshop (AB/REC & RS/PN)
  Locations: Foster Court B29 & Torrington (1-19) 113

Friday 20 September

10:00 – 13:00 STAT0008 Statistical Inference test: only for MSc Statistics students (excluding Medical Statistics) who wish to replace this module by another one. (CC)
  Location: Torrington (1-19) 102

14:30 – 17:00 Bayesian Workshop Ch. 15.3, (Optional for MSc Data Science students) (PD)
  Location: Cruciform Building B404 - LT2

Monday 23 September

10:00 – 13:00 Introduction to significance tests. Ch. 11.2, 11.3 (SH)
  Location: Torrington (1-19) G12

14:30 – 16:00 Categorical data and x2 – tests. Ch. 13.1 – 13.4 (AD)
  Location: Torrington (1-19) G12

16:00 – 18:00 Party for MSc Statistics (Including Medical Statistics) and MSc Data Science students
  Location: Torrington Place (1-19) Room 102

Tuesday 24 September

10:00 – 13:00 Simple Linear regression and least squares, Ch. 14.1 – 14.2 (GM)
  Location: IOE Bedford Way (20) C309

13:30 – 16:00 Enrolment - Gower Street Site. Please see https://www.ucl.ac.uk/students/new-students/enrolment-new-students

Wednesday 25 September

11:30 – 11:45 Environmental Sustainability
  Location: IOE Bedford Way (20) C309

11:45 – 12:00 Introduction to UCL Careers
  Location: IOE Bedford Way (20) C309

14:00 – 17:00 Introduction to Stochastic Processes (Optional for MSc Data Science students) (YP)
  Location: IOE Bedford Way (20) C309

Thursday 26 September

11:00 – 12:30 MAPS Faculty Welcome Event
  Location: Darwin Building B40 LT

14:00 – 14:30 STAT0017 Selected Topics in Statistics (SL & MR)
  Location: Torrington (1-19) G12

14:45 – 17:15 Poison processes and further applied probability (NA)
  Location: Torrington (1-19) G12

Friday 27 September

12:30 – 13:30 Active Bystander / Zero Tolerance session
  Location: IOE – Bedford Way (20) W3.07