CH923: Statistics for Data Analysis

Timetable for 2010-11 Academic Year

Tuesday 5th October

- 0900 1030 Module Introduction Importance of statistics for life science research (AM)
- 1100 1200 Basic notions of probability I (JSF)
- 1200 1300 Probability practical I
- 1400 1500 Basic notions of probability II (JSF)
- 1500 1700 Probability practical II (Spectroscopy lecture for AS-MIT students from 1600)

Wednesday 6th October

- 0900 1030 Summarising data I (AM)
- 1100 1230 Summarising data practical I
- 1330 1500 Summarising data II (AM)
- 1530 1700 Summarising data practical II

Monday 11th October

- 0900 1000 Review of earlier topics (AM/JSF)
- 1000 1100 Introduction to statistical computing (AM/JSF)
- 1130 1300 Statistical computing practical
- 1330 1430 The nature of measurement (AS-MIT) (JSF)
- 1330 1430 Sequence comparisons (MOAC/SB/LS) (AM)
- 1500 1700 Hypothesis testing I Philosophy (AM)

Tuesday 12th October

- 0900 1000 Hypothesis testing II t-test (JSF)
- 1000 1100 Hypothesis testing practical I
- 1100 1200 Hypothesis testing III F-test and Chi-square test (JSF)
- 1200 1300 Hypothesis testing practical II
- 1400 1500 Simple analysis of continuous data I (one-way ANOVA) (AM)
- 1530 1700 Simple analyses practical I

Monday 18th October

- 0900 1000 Review of earlier topics (AM/JSF)
- 1000 1130 Simple analysis of continuous data II (Blocks / SLR) (AM)
- 1130 1300 Simple analyses practical II
- 1330 1430 Simple analyses of continuous data III (ANOVA or regression) (AM)
- 1430 1530 Simple analyses practical III
- 1600 1700 Exam preparation (AM)

Tuesday 19th October

- 0900 1030 Designing experiments (JSF)
- 1100 1300 Designing experiments practical I
- 1400 1530 Designing experiments practical II
- 1600 1700 Sampling and quality control (AS-MIT++) (JSF)

Wednesday 20th October

0900 – 1200 Mid-module examination (computer-based)

Monday 25th October

- 0900 1000 Exam results/feedback and module plans (AM/JSF)
- 1000 1130 Analysis of designed experiments ANOVA (JSF)
- 1130 1300 Analysis of designed experiments practical I
- 1400 1530 Analysis of designed experiments practical II
- 1600 1700 More on designing experiments (AS-MIT++) (JSF) Review of pre-exam topics (as required) (AM/JSF)

Tuesday 26th October

- 0900 1030 Relationships between variables (AM)
- 1100 1300 Relationships between variables practical I
- 1400 1600 Relationships between variables practical II
- 1600 1700Statistical approaches for microarrays (MOAC/SB/LS++) (AM)Review of pre-exam topics (as required) (JSF/AM)

Monday 1st November

- 0900 1030 Analysis of non-normal data (JSF)
- 1100 1300 Analysis of non-normal data practical I
- 1400 1700 Analysis of non-normal data practical II Review of pre-exam topics (as required) (AM/JSF)

Tuesday 2nd November

- 0900 1030 Multivariate analysis (AM)
- 1100 1300 Multivariate analysis practical I
- 1400 1700 Multivariate analysis practical II
- 1500 1600 Multivariate calibration and regression (AS-MIT++) (AM)
 - Review of pre-exam topics (as required) (JSF/AM)