Schedule of Material to be given out in
Statistics: Theory and Practice – 2013/14

Session 1 – Wednesday 9th October
• Statistics: Theory and Practice – introductory handout
• 1 – Review of Univariate Distribution Theory
• Examples 1

Session 2 – Wednesday 16th October
• 2 – Mappings and Generating Functions of Random Variables
• Examples 2
• Solutions 1

Session 3 – Wednesday 23rd October
• 3 – Pairs of Random Variables
• Examples 3
• Solutions 2

Session 4 – Wednesday 30th October
• 4 – Collections of Random Variables
• Examples 4
• Solutions 3

No sessions on Wednesday 6th November: it is reading week.

Session 5 – Wednesday 13th November
• 5 – An Introduction to Statistical Estimation
• Examples 5
• Solutions 4
Session 6 – Wednesday 20th November
• 6 – Hypothesis Testing
• Examples 6
• Solutions 5

Session 7 – Wednesday 27th November
• 7 – Randomized Designs, Data Matrices and S+
• Examples 7
• Solutions 6

Session 8 – Wednesday 4th December
• 8 – Statistical Modelling and One-Way ANOVA
• Examples 8
• Solutions 7
• Solutions 8
• Assignment

Session 9 – Wednesday 15th January
• 9 – The Likelihood Function and Sufficiency
• Examples 9

Session 10 – Wednesday 22nd January
• 10 – Point Estimation using Maximum Likelihood
• Examples 10
• Solutions 9
Session 11 – Wednesday 29th January
• 11 – Estimation and Comparison of Treatment Effects
• Examples 11
• Solutions 10

Session 12 – Wednesday 5th February
• 12 – The Analysis of Residuals
• Examples 12
• Solutions 11

No sessions on Wednesday 12th February: it is reading week.

Session 13 – Wednesday 19th February
• 13 – Simple Linear Regression
• Examples 13
• Solutions 12

Session 14 – Wednesday 26th February
• 14 – Multiple Linear Regression
• Solutions 13

Session 15 – Wednesday 5th March
• 15 – The Choice of Regressor Variables
• Examples 14
Session 16 – Wednesday 12th March

- Examples 15
- Solutions 14
- Solutions 15
- Assignment 2