

All courses will be held in the Jura/Islay computer suites at the Main Library, University of Glasgow.

All courses will be a mix of lectures, tutorials and computer practicals.

Course handbooks with all notes and worked examples for the practicals will be provided.

	Introductory Courses*	Advanced Courses**
Mon 14th – Tue 15th August	An Introduction to using R with routine data <i>Course Leader: Dr Jon Minton</i> <ul style="list-style-type: none"> R and RStudio projects, code piping and the tidyverse Reading, tidying, rearranging and writing datasets; working with multiple data types Summarising data with tables and graphs, and automating routine processes with purrr package 	Multilevel Modelling of Health Data using R <i>Course Leader: Prof. Mark Tranmer</i> <ul style="list-style-type: none"> Introduce Multilevel Modelling for R users Hands-on use of R packages to fit Multilevel Models Analyse Data and Interpret Results in Health Context
Wed 16th August	Information Governance, Disclosure Control & Safe Havens <i>Course Leader: Prof. Colin McCowan</i> <ul style="list-style-type: none"> Basics of IG with practical focussed on IG Training certificate Disclosure control and preparing outputs Protocols for application to SHs and how to use them 	Pharmacoepidemiology - Working with Prescribing Information System <i>Course Leader: Dr Richard Papworth / Prof. Colin McCowan</i> <ul style="list-style-type: none"> Learn basic concepts of pharmacoepidemiology Examine designs through case studies Practical exercises with PIS to identify and measure medication use in individuals
Thur 17th – Fri 18th August	An Introduction to Statistics Using R <i>Course Leader: Dr Caroline Haig</i> <ul style="list-style-type: none"> Learn the principles of basic statistical analyses Learn how to perform these techniques using R and interpret the output Practical exercises to illustrate numerical and graphical techniques 	An Introduction to Survival Analysis <i>Course Leader: Dr Jim Lewsey</i> <ul style="list-style-type: none"> Learn basic concepts of survival analysis Learn how to fit and interpret Cox regression and parametric survival models Practical exercises to include common data manipulation routines needed for survival analysis

* Introductory Courses: No prior knowledge of the subject matter is required for courses running Monday-Wednesday. For students attending the Statistics course on Thursday & Friday we recommend completing **An Introduction to using R with routine data** as prior learning.

**Advanced Courses: All participants will be expected to have experience of using the R analysis software package, and to have a basic understanding of data management and statistics. The subject matter of specific courses may, however, be new to the participant. Concepts and theory will be introduced for these courses, in the context of using R.

Courses are priced per day as follows:

£125 per day for students, £175 for HEI staff/NHS, £250 for industry.

Booking a full week of courses will offer a 20% discount:

Students £500, HEI Staff/NHS £700, Industry £1000

A course drinks reception will be held on Tuesday 15th August and a course dinner will be held on Thursday 17th August.

Course places are limited so booking is essential.

**INSPIRING
PEOPLE**



For further information please email:
contactus@glasgowctu.org