A two-week summer school on research methods, measurements and statistical analysis for the behavioural and social sciences

Research and Statistics Summer School

Offered by
the School of Psychology,
in association with the Measurement, Evaluation and Modelling Research Unit (MEMRU)
University of Ulster

23 August - 3 September 2010
University of Ulster, Magee campus
Introduction
The University of Ulster will be running its 19th Annual Summer School on Research Methods and Statistics for Behavioural and Social Sciences. The courses are designed both for participants interested in developing basic research and analysis skills, and those wanting to gain more advanced statistical skills. Included will be introductory courses on Research Methods and Statistical Analysis using SPSS. There will also be more advanced sessions on Regression Models, Factor Analysis, Structural Equation Modelling, Qualitative Analysis, Latent Growth Models and Latent Class Analysis. Participants can choose which of the sessions they wish to attend.

Programme Outline

Monday 23rd August
SSPSS for Beginners
This session is designed for those who have had little or no experience with SPSS, or who require a refresher course. The course will also cover the design and analysis of questionnaire type research.

Tuesday 24th & Wednesday 25th August
Regression Analysis, Factor Analysis, & The General Linear Model
This 2-day session seeks to provide participants with a firm working knowledge of a wide range of statistical models – many of which serve as fundamental prerequisites for those participants wishing to take the Structural Equation Modelling course. A number of the worked examples will be provided using SPSS, AMOS, LISREL and Mplus.

Thursday 26th and Friday 27th August
Structural Equation Modelling (SEM)
Structural equation modelling (SEM) is a flexible statistical model that allows researchers to specify, estimate, and interpret complex socio-behavioural models. The power of SEM derives from its ability to control for the deleterious effects of measurement error and provide measures of model fit. This course will describe the general statistical framework in terms of the LISREL (8.53) model and software, though some use will also be made of AMOS and Mplus.

Monday 30th August Bank Holiday

Thursday 31st August & Wednesday 1 September
Latent Growth Models and Latent Class Analysis
The analysis of change is central to much psychological and social research. The emphasis is placed on change within the correlations, variances and means. One particular extension that will receive attention is the incorporation of latent class models within the LGM structure. Within LCA models it is assumed that frequency count data can be described in terms of a number of subgroups of respondents, e.g., those with a given syndrome and those currently free from the syndrome. This workshop will use the Mplus programme.

http://adl.ulster.ac.uk/lifelonglearning/flexible
Thursday 2nd &
Friday 3rd September
Qualitative Research Methodology and
An Introduction to NVIVO
Day 1 will be devoted to a basic introduction as to what qualitative research is, and to how and why it might be used. This workshop will be useful for all interested in basic knowledge of qualitative research methodology, but could also act as a useful revision tool before undertaking a study using qualitative methods. Day 2 will be devoted to an introduction NVIVO, which is a computer analysis programme for qualitative researchers. The workshop is for those who would like the opportunity to find out more about the NVIVO programme and its potential.

Payment
Cheques should be made payable to the University of Ulster and crossed. Where cancellations are received less than 7 days before the commencement of the Summer School, a cancellation fee of £25.00 will be charged. The Summer School fee and completed application form should be returned by Monday 16 August 2010 to:

Sharon Adams
Lifelong Learning
University of Ulster
Jordanstown Campus
NEWTOWNABBEY
Co Antrim BT37 0QB
T: (028) 9036 6680
F: (028) 9036 6060
E: lifelonglearning@ulster.ac.uk

Application Form
Research and Statistics Summer School
23rd August to 3rd September 2010

(Please print in capitals)

Full Name & Title: (Prof/Dr/Mr/Mrs/Miss/Ms)
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Home Address: ..................................................................................
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....................................................................................................................
Postcode: ..............................................................................................
Tel No (Home): ................................................................................
Tel No (Work): .................................................................................
Fax or Email: .......................................................................................
Name and address of organisation
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Postcode: ..............................................................................................
Position held: ......................................................................................
Signed: ....................................................................................................
Date: ........................................................................................................

Credit Cards:
Payment may be made by VISA or MASTERCARD only. If you wish to pay by credit card please complete the following in full:
Charge to my credit card:  VISA □
MASTERCARD □

Credit card number:

Expiry date: .........................................................................................
Name on card: ..................................................................................
Billing address: ..................................................................................

For Office Use CRS code 10020
fee date received
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Research and Statistics
Summer School
Please tick below which sessions you wish to attend.

**SPSS for Beginners**
Monday 23rd August

**Regression Analysis, Factor Analysis, and the General Linear Model**
Tuesday 24th and Wednesday 25th August

**Structural Equation Modelling (SEM)**
Thursday 26th and Friday 27th

**Latent Growth Models and Latent Class Analysis**
Tuesday 31st and Wednesday 1st September

**Qualitative Research Methodology and An Introduction to NVIVO**
Thursday 2nd and Friday 3rd September

Fee enclosed: £

Sessions will run from 9.30am until 4.30pm

**Fees**
Fees will be £120 per day including lunch and refreshments. There will be a reduction for the unwaged to £60 per day. A 20% discount will be given where the booking is for any period of five or more days.

**Accommodation**
University accommodation may be available for students attending the Summer School. Please contact Anne Mullan, Accommodation Officer by E: a.mullan@ulster.ac.uk
Tel: (028) 7137 5611
Further information on accommodation in Londonderry can be found at www.visitderry.com

If you have any queries regarding the Summer School please contact
**Dr Sam Murphy**
T: (028) 7137 5416
E: sd.murphy@ulster.ac.uk

If you have any queries regarding registration and other administrative matters contact
**Sharon Adams**
T: (028) 9036 6680
E: lifelonglearning@ulster.ac.uk

For bookings and queries
Tel:
028 9036 6680
Fax
028 9036 6060
(048 from the RoI)