Title: ___________________ First Name: ___________________ Surname: ___________________
Employer: ___________________________________________________________________________________
Department: _______________________________________________________________________________
Postal address: ___________________________________________________ Postcode: __________________
Telephone: ___________________ Fax: ___________________ Mobile _________________________________
Email: _____________________________________

Places in the course will be allocated on a first-come-first-served basis, with preference given to those who have previously expressed interest

Please see the attachment for further information, including course dates, content and pre-requisites.

_______________________________________   ________________________________
Signature          Date

Course Fees:

Total Owing (GST incl)  
Full:$1485.00
UOM PG Student: $1100.00        Student ID: ________________________________

Method of Payment:

☐ Please send an internal charge-out for $1350/$1000 (GST excl) to _____________ (Dept Number).
   Themis account string: __________________________ Finance person: __________________________

☐ Cheque for $1485/$1100 (GST incl), payable to Statistical Consulting Centre, enclosed.

☐ Please send/fax me a tax invoice for $1485/$1100 (GST incl).
   Name and address for tax invoice, if different form above:
   _______________________________________________________________________________________

☐ To pay by credit card (Full $1485, UoM student $1100) you need to go online at:

Payment is required to confirm enrolment.

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Email: dmai@unimelb.edu.au
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Statistics for Research Workers

A course of the Statistical Consulting Centre, University of Melbourne

This course is an introduction to statistical methods. The course will cover:

- Descriptive statistics; graphs, tables, summary statistics. Introduction to SPSS.
- Introduction to estimation and confidence intervals.
- The normal distribution; means and variances of sums of random variables; the Central Limit Theorem; the normal approximation to the binomial distribution.
- Confidence intervals for means and proportions.
- Introduction to hypothesis testing.
- Tests for differences in location between two populations with matched samples: sign test, Wilcoxon signed-rank test, \( t \)-test. The relationship between confidence intervals and hypothesis testing.
- Tests for differences in location between two populations with independent samples: \( t \)-test.
- Testing for difference in location of more than two populations. Analysis of variance (F-test), multiple comparisons.
- Two-way classifications: analysis of variance (F-test), interaction.
- Determination of sample size.
- Design of experiments: randomization, blocking, replication, confounding. Standard designs.
- Correlation and straight line regression.
- Multiple regression.
- Analysis of categorical data; contingency tables.

Course structure: Dates: Wednesday 02 November to Wednesday 9 November 2016. The six days are deliberately arranged so that there is a weekend break during the course. Each day will consist of four approximately equal-length sessions; the first session of the day will commence at 9:15 a.m. and the final session will end at approximately 4:45 p.m. The sessions will mix lecture presentations with practical work using software; tutorial help will be liberally available. Registration on the first day is at 9am. A full set of notes will be provided. Morning and afternoon teas are included; lunches are not included. A certificate on completion can be provided on request.

Venue: The course will be held in the Wilson Computer Laboratory in the Department of Mathematics and Statistics, Richard Berry Building; more details will be supplied in your acceptance letter. Parking within the University grounds will not be available.

Prerequisites: There are no formal prerequisites though it is expected that most participants will have studied mathematics at VCE level, or equivalent. Participants need to be comfortable with a limited amount of mathematical notation. The onus is on participants to check that the course suits their needs. Please do this carefully.

Course presenters: Associate Professor Ian Gordon, the Director of the Statistical Consulting Centre and Dr Sue Finch, who have given many similar courses previously.