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).

Or Full accounting string: ______________________________________________________________________

Finance person: __________________ Email: __________________________

☐ 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 from above:

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☐ Credit card payment: Amount: $1485/$1100 (GST incl)

To Pay by credit card you need to go online at:


Payment is required to confirm enrolment.
This course is an introduction to statistical methods. The course will cover:

- Descriptive statistics; graphs, tables, summary statistics. Introduction to R.
- 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 15 February to Wednesday 22 February 2017. The course is deliberately arranged so that there is a weekend break in the middle. 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 is at 9 am on the first day.

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.