

ADVANCED BIOSTATISTICS & EPIDEMIOLOGY SUMMER SCHOOL

Summer 2016

Date 28 November - 2 December 2016

Location UQ Herston Campus, Brisbane

Program Co-ordinator Gita Mishra

Entry requirements Please refer to the modules below.

Program Overview

This 6th summer school will offer two modules, each two and a half days long. UQ students must complete both modules. Participants can attend one or both modules and will be provided with updated lecture notes and computer based exercises. This course will provide researchers with the practical skills to use cutting edge methods in Epidemiology and Biostatistics. Researchers will be introduced to the concept of causal inference using observational data. Topics include directed acyclic graphs, mediation analyses, longitudinal data analysis and multiple imputations.

Morning and afternoon tea are included (Please inform of any special dietary requirements). Desktop computers will be available to use at UQ during the modules. USBs with course notes will be distributed to each student. Please note places are limited to a maximum of 20.

Module Topics

Module 1: Directed acyclic graphs and mediation analysis: Instructors Gita Mishra, Isabel Ferreira and Mark Jones

Monday 28th November & Tuesday 29th November 8.30am-5pm; Wednesday 30th November 8.30am - 12.00pm.

- Introduce directed acyclic graphs (DAGs)
- Describe mediation analysis and terminology
- Describe causal inference framework
- Examples

Stata, R and SAS will be used for this module, which assumes prior knowledge of multivariable regression analyses for Normally distributed and binary data with independent observations.

Module 2: Longitudinal data analysis. Instructors: Gail Williams and Peter Baker

Wednesday 30th November 1.00pm- 5pm; Thursday 1st & Friday 2nd December 8.30am-5.00pm.

- Structuring longitudinal data and its presentation
- Generalised Estimating Equation models
- Missing data methods - Multiple Imputations

Stata, R and SAS will be used for this module, which assumes prior knowledge of multivariable regression analyses for Normally distributed and binary data with independent observations.

Who is this Program for?

- Postgraduate students, researchers and government personnel with an interest in one or more of these emerging fields of epidemiology and biostatistics.

Location

The School of Public Health, Herston, Brisbane (map: <http://www.pf.uq.edu.au/maps/Herston.pdf>)

Cost

Local/Domestic Students: enrol into PUBH7632 via UQ Si-Net. Student fees for a 2 unit course apply.

International Students: enrol into PUBH7632 via UQ Si-Net. Student fees for a 2 unit course apply.

Non-Award enrol by completion of Non-Award application form: <http://www.uq.edu.au/study/forms/enrolment/Non-AwardApplic.pdf>

Cross Institutional: <https://future-students.uq.edu.au/apply/cross-institutional/choose-your-course>

Non-UQ Course participants: Fees: \$1100 per module (\$1905 two modules) incl GST. Course participants do not complete the assessment.

Pay via UQ Online Payment System <https://payments.uq.edu.au/OneStopWeb.aspx/tranform.aspx?TRAN-TYPE=W01SOPH06>

and complete the attached registration form. Email this form along with a copy of your receipt to the email below.

Contact

For all enquiries please contact Alison Manley (07)3365 5520 or a.manley@sph.uq.edu.au





THE UNIVERSITY
OF QUEENSLAND
AUSTRALIA

Short Course Participant Enrolment Form
Advanced Biostatistics & Epidemiology Summer School
28th November – 2nd December 2016

Participant Information

Title: _____ Surname: _____ Given Name: _____

Address: _____

State: _____ Postcode: _____ Country: _____

Phone/Mobile: _____ Email: _____

Do you have any dietary requirements: _____

I understand that by enrolling as a short course participant I will not be formally assessed.

Signed: _____ Date: _____

I wish to complete Module 1: Module 2: Both Modules:

Please print your name as you want it to appear on your Certificate of Attendance:

When you have completed the participant details above please return this form via email to
a.manley@sph.uq.edu.au

Please note: one applicant per registration form and the form will only be accepted with a fee payment receipt attached. Fee payment link: <https://payments.uq.edu.au/OneStopWeb/asp/transform.aspx?TRAN-TYPE=W01SOPH06>

Refund Policy

An administration fee of 5% will be charged for cancellations received on or before 30 September 2016.
A refund of 50% will be granted for cancellation on or after 1st October and up until 4th November 2016.
There will be no refund for cancellation received on or after 5th November 2016.