UWA School of Population Health

BIOSTATISTICS UNIT SEMESTER 2 (2015)

Do you have a basic knowledge of statistics and want to become more self-sufficient in biostatistical methods commonly used in the health field. If yes then read on….

The unit PUBH 5769 (Biostatistics II) covers biostatistical methods commonly used in epidemiological and clinical research. It includes modern regression methods for the analysis of binary outcomes (contingency tables, logistic regression), time-to-event outcomes (incidence rates, survival curves, Poisson regression, Cox regression) and quantitative outcomes (ANOVA, multiple linear regression). The application of these methods to data from cross-sectional, case-control and cohort/clinical studies is described. The emphasis is on how to intelligently use these methods, how to use SAS to do the calculations, and how to interpret the results. [Note that UWA SAS site licence allows all staff and enrolled students a free copy].

The principal instructor is Professor Matthew Knuiman.

WHO CAN ENROL

Any person with adequate preparation (see prerequisites below) may enrol in the unit.

UWA postgraduate coursework students may enrol in this unit through the usual process. Note however, that you may need special permission if you have not already completed PUBH4401 (Biostatistics I) or equivalent.

UWA postgraduate research (Masters and PhD) students may enrol through submission of a Variation in Terms (2) form to the Graduate Research School that adds this coursework unit to their enrolment record. (copies available at http://www.postgraduate.uwa.edu.au/students/forms)

Professional development (not-for-degree) enrolments are also possible. For participation with assessment, for unit credit, please complete the AccessUWA Application Form enrolling as a Continuing Education (assessed) student. See http://www.studyat.uwa.edu.au/courses-and-careers/short-courses/accessuwa-single-unit

For participation without assessment, please register and pay on-line through School of Population Health postgraduate coursework shopping cart facility (Credit Card payments only http://payments.sph.uwa.edu.au/professional_development?page=1), or email Enquiries-SPH@uwa.edu.au if you wish to be invoiced.

HOW, WHEN AND WHERE

Comprehensive course materials are provided online and there is a weekly lecture [Wednesday 11.00am-12.50pm in Seminar Room 3 of the Clifton St Building, Nedlands Campus]. The lectures are recorded and available on-line. The first lecture is Wednesday 29 July and the last lecture is 21 October. There is an optional weekly tutorial session (starting 12 August) on Wednesday 9.00-10.30am. For those doing unit with assessment, exam is during 7-21 November. The unit is available in online and face-to-face mode.

PREREQUISITE KNOWLEDGE AND EXPERIENCE

A knowledge of basic statistical methods and concepts as taught in many introductory biostatistics/statistics courses (eg PUBH4401 Biostatistics I)
A basic familiarity with epidemiological/clinical study designs.
Familiarity with hand-held calculators.
Familiarity with computing in a windows environment.
Experience with at least one statistical analysis package (eg SPSS or SAS)

NEED MORE INFORMATION?

Enrolment help: Contact Sheona Harrison on 6488 1271 or Sheona.harrison@uwa.edu.au.
Course content help: Contact Matthew Knuiman via matthew.knuiman@uwa.edu.au