POPH90118 Clinical Biostatistics

Credit Points:	12.50
Level:	9 (Graduate/Postgraduate)
Dates & Locations:	2010, Parkville This subject commences in the following study period/s: Semester 1, Parkville - Taught online/distance. Distance
Time Commitment:	Contact Hours: None - subject taught by distance Total Time Commitment: 8-12 hours total study time per week
Prerequisites:	505-107 Principles of Statistical Inference (PSI) (maybe taken concurrently)
Corequisites:	None
Recommended Background Knowledge:	None
Non Allowed Subjects:	None
Core Participation Requirements:	None
Coordinator:	Prof John Carlin
Contact:	Dr Mark Jones, University of Queensland Biostatistics Collaboration of Australia OR Academic Programs Office Melbourne School of Population Health Tel: +61 3 8344 9339 Fax: +61 3 8344 0824 Email: sph-gradinfo@unimelb.edu.au
Subject Overview:	Clinical agreement (kappa statistics, Bland-Altman agreement method, intraclass correlation); diagnostic tests (sensitivity, specificity, predictive values, ROC curves, likelihood ratio); statistical process control (special and common causes of variation, Shewhart, CUSUM and EMWA charts); and systematic reviews (process, estimating treatment effect, assessing heterogeneity, publication bias).
Objectives:	To enable students to use correctly statistical methods of particular relevance to evidence-based health care and to advise clinicians on the application of these methods and interpretation of the results.
Assessment:	Four written assignments to be submitted during the semester worth 20%, 25%, 20% 25% respectively (approx 8 hours of work each). Contribution to online discussions, worth 10% (approx 6 hrs work).

Subject	Study Period Commencement:	Credit Points:
POPH90015 Mathematics B'Ground for Biostatistics	Not offered 2010	12.50
POPH90016 Epidemiology	Semester 1, Semester 2	12.50
POPH90148 Probability and Distribution Theory	Semester 1, Semester 2	12.50
POPH90017 Principles of Statistical Inference	Semester 1, Semester 2	12.50

Prescribed Texts:	None Resources Provided to Students: Printed course notes and assignment material by mail, email, and online interaction facilities Special Computer Requirements: Stata statistical software.
Breadth Options:	This subject is not available as a breadth subject.
Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees
Generic Skills:	Independent problem solving, critical appraisal of research literature, clarity of written expression, sound communication of technical concepts
Links to further information:	http://www.sph.unimelb.edu.au
Notes:	This subject is not available in the Master of Public Health.
Related Course(s):	Master of Biostatistics Postgraduate Certificate in Biostatistics Postgraduate Diploma in Biostatistics