POPH90118 Clinical Biostatistics

Credit Points:	12.5
Level:	9 (Graduate/Postgraduate)
Dates & Locations:	2016, Parkville This subject commences in the following study period/s: Semester 1, Parkville - Taught online/distance.
Time Commitment:	Contact Hours: None - This subject is taught via Distance Learning Total Time Commitment: 170 hours
Prerequisites:	# POPH90014 Epidemiology 1 **OR** POPH90016 Epidemiology # POPH90148 Probability and Distribution Theory # MAST90100 Inference Methods in Biostatistics **OR** POPH90017 Principles of Statistical Inference # MAST90102 Linear Regression **OR** POPH90120 Linear Models (either may be taken concurrently) # POPH90119 Design of Randomised Controlled Trials
Corequisites:	None
Recommended Background Knowledge:	None
Non Allowed Subjects:	None
Core Participation Requirements:	For the purposes of considering request for Reasonable Adjustments under the Disability Standards for Education (Cwth 2005), and Students Experiencing Academic Disadvantage Policy, academic requirements for this subject are articulated in the Subject Description, Subject Objectives, Generic Skills and Assessment Requirements of this entry. The University is dedicated to provide support to those with special requirements. Further details on the disability support scheme can be found at the Disability Liaison Unit website.
Coordinator:	Prof John Carlin
Contact:	**john.carlin@unimelb.edu.au (mailto:john.carlin@unimelb.edu.au)** **Melbourne School of Population and Global Health** **OR** **Currently enrolled students:** # General information: **https://ask.unimelb.edu.au (https://ask.unimelb.edu.au)** # Email: **enquiries-STEM@unimelb.edu.au (mailto:enquiries-STEM@unimelb.edu.au)** **Future Students:** # Further Information: **http://mspgh.unimelb.edu.au/ (http://mspgh.unimelb.edu.au/)** # Email: **Online Form (http://mspgh.unimelb.edu.au/study/degrees/master-of-public-health/overview)**
Subject Overview:	Clinical trials (equivalence trials, cross-over trials); Clinical agreement (Bland-Altman methods, kappa statistics, intraclass correlation); Statistical process control (special and common causes of variation; quality control charts); Diagnostic tests (sensitivity, specificity, ROC curves); Meta-analysis (systematic reviews, assessing heterogeneity, publication bias, estimating effects from randomised controlled trials, diagnostic tests and observational studies).

Learning Outcomes:	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:	One written assignment due in week 6 (approx 15 hours of work) 40% One written assignment due in week 10 (approx 12 hours of work) 30% One written assignment due in week 12 (approx 14 hours of work) 30%
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.pgh.unimelb.edu.au
Notes:	This subject is not available in the Master of Public Health.
Related Course(s):	Graduate Certificate in Biostatistics Graduate Diploma in Biostatistics Master of Biostatistics Postgraduate Diploma in Biostatistics