## POPH90119 Design of Randomised Controlled Trials

Credit Points:	12.50		
Level:	9 (Graduate/Postgraduate)		
Dates & Locations:	This subject is not offered in 2014. Distance		
Time Commitment:	Contact Hours: None Total Time Commitment: 8-12 hours total study time per week		
Prerequisites:	-		
	Subject	Study Period Commencement:	Credit Points:
	POPH90016 Epidemiology	Semester 1, Semester 2	12.50
	POPH90015 Mathematics Background for Biostatistics	Semester 1, Semester 2	12.50
Corequisites:	None		
Recommended Background Knowledge:	None		
Non Allowed Subjects:	None		
Core Participation Requirements:	None		
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Subject Overview:	Topics include: principles and methods of randomisation in controlled trials; treatment allocation, blocking, stratification and allocation concealment; parallel, factorial and crossover designs including n-of-1 studies; practical issues in sample size determination; intention-to-treat principle; phase I dose finding studies; phase II safety and efficacy studies; interim analysis and early stopping ; multiple outcomes/endpoints, multiple tests and subgroup analyses, including adjustment of significance levels and P-values; reporting trial results and use of the CONSORT statement.		
Learning Outcomes:	To enable students to understand and apply the principles of design and analysis of experiments, with a particular focus on randomised controlled trials (RCTs), to a level where they are able to contribute effectively as a statistician to the planning, conduct and reporting of a standard RCT.		
Assessment:	Three written assignments submitted during the semester; Two worth 30% each (approx 10 hours work each) and one worth 40% (approx 12 hours work).		
Prescribed Texts:	Piantadosi, S. Clinical Trials: A Methodological Perspective, 2nd ed, John Wiley & Sons, New York, 2005 (ISBN 978-0-471-72781-1) Resources Provided to Students: Printed course notes and assignment material by mail, email, and online interaction facilities.		

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	