

## CLRS90010 Basic Clinical Research Tools

<b>Credit Points:</b>	12.50
<b>Level:</b>	9 (Graduate/Postgraduate)
<b>Dates &amp; Locations:</b>	2012, Hawthorn This subject commences in the following study period/s: Semester 1, Hawthorn - Taught on campus. Intensive
<b>Time Commitment:</b>	Contact Hours: 24 hours of lectures/seminars/workshops Total Time Commitment: Students should expect to undertake a minimum of 120 hours lectures, research, reading, writing etc to complete this subject successfully.
<b>Prerequisites:</b>	nil
<b>Corequisites:</b>	nil
<b>Recommended Background Knowledge:</b>	nil
<b>Non Allowed Subjects:</b>	nil
<b>Core Participation Requirements:</b>	For the purposes of considering requests 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: <a href="http://www.services.unimelb.edu.au/disability/">http://www.services.unimelb.edu.au/disability/</a>
<b>Contact:</b>	School of Melbourne Custom Programs Level 3, 442 Auburn Rd Hawthorn VIC 3122 Phone: 03 9810 3245 Email: <a href="mailto:clinical.research@commercial.unimelb.edu.au">clinical.research@commercial.unimelb.edu.au</a> ( <a href="mailto:clinical.research@commercial.unimelb.edu.au">mailto:clinical.research@commercial.unimelb.edu.au</a> )
<b>Subject Overview:</b>	Topics covered include: Basic descriptive data Probability and inference Analysis of two-way tables Differences of Means Simple correlation Case-series, cross-sectional, cohort, case-control studies and Randomised Clinical Trials (RCTs). Measurement of exposure Measurement of response Bias, random error and individual variation (including response variation) Sample size and power
<b>Objectives:</b>	Students who successfully complete this subject will be able to: # Understand the basic principles in Epidemiology and Biostatistics. # Understand the strengths and weaknesses of different study designs # Understand basic principles of epidemiological and clinical research # Be familiar with terms used in the literature # Understand statistical reasoning, including inference and the need for power and appropriate samples # Perform basic statistical processes

	# Understand the role, strengths and weaknesses of different study designs
<b>Assessment:</b>	A series of epidemiological and biostatistical exercises equivalent to 2,000 words (50%), and a review of segments of journal articles of 2,000 words (50%).
<b>Prescribed Texts:</b>	nil
<b>Recommended Texts:</b>	Students will be provided with articles and references that support the teaching program as part of their course materials.
<b>Breadth Options:</b>	This subject is not available as a breadth subject.
<b>Fees Information:</b>	Subject EFTSL, Level, Discipline & Census Date, <a href="http://enrolment.unimelb.edu.au/fees">http://enrolment.unimelb.edu.au/fees</a>
<b>Generic Skills:</b>	<p>Students who successfully complete this subject will be able to:</p> <ul style="list-style-type: none"> <li>Understand the basic principles in Epidemiology and Biostatistics.</li> <li>Understand the strengths and weaknesses of different study designs</li> <li>Understand basic principles of epidemiological and clinical research</li> <li>Be familiar with terms used in the literature</li> <li>Understand statistical reasoning, including inference and the need for power and appropriate samples</li> <li>Perform basic statistical processes</li> <li>Understand the role, strengths and weaknesses of different study designs</li> </ul>
<b>Links to further information:</b>	<a href="http://www.mccp.unimelb.edu.au/courses/award-courses/graduate-certificate/clinical-research">http://www.mccp.unimelb.edu.au/courses/award-courses/graduate-certificate/clinical-research</a>
<b>Related Course(s):</b>	<ul style="list-style-type: none"> <li>Graduate Certificate in Clinical Research</li> <li>Graduate Diploma in Clinical Research</li> <li>Master of Clinical Research</li> <li>Professional Certificate in Clinical Research</li> </ul>