

## CLRS90010 Basic Clinical Research Tools

<b>Credit Points:</b>	12.5
<b>Level:</b>	9 (Graduate/Postgraduate)
<b>Dates &amp; Locations:</b>	<p>2015, Parkville This subject commences in the following study period/s: May, Parkville - Taught on campus.</p> <p>2015, Hawthorn This subject commences in the following study period/s: Semester 1, Hawthorn - Taught on campus.</p>
<b>Time Commitment:</b>	Contact Hours: 48 hours (4 day intensive block) Total Time Commitment: 170 hours per 12.5 credit point subject
<b>Prerequisites:</b>	To enrol in this subject, you must be admitted in either N28AA, N12AA, N34AA or N01AA. This subject is not available for students admitted in any other courses.
<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 (Commonwealth 2005), and Students Experiencing Academic Disadvantage Policy, academic requirements for this course are articulated in the Course Overview, Objectives and Generic Skills sections of this entry. It is University policy to take all reasonable steps to minimise the impact of disability upon academic study, and reasonable adjustments will be made to enhance a student's participation in the University's programs. Students who feel their disability may impact on meeting the requirements of this course are encouraged to discuss this matter with a Faculty Student Adviser and the Disability Liaison Unit: <a href="http://www.services.unimelb.edu.au/disability/">http://www.services.unimelb.edu.au/disability/</a>
<b>Contact:</b>	<p>School of Melbourne Custom Programs Level 3, 442 Auburn Rd Hawthorn VIC 3122 Program Coordinator - Kathy Griffiths Phone - (03) 9810 3174 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>)</p>
<b>Subject Overview:</b>	<p>As scary to some people as they are hard to spell correctly! Yet biostatistics and epidemiology are essential to how clinical data is analysed. Not simply after-the-event add-ons, but determining the design and analysis of all the data that is collected. These fields have experts able to assist researchers, but without a good understanding of the basic principles of biostatistics and epidemiology, dialogue about the processes involved is difficult. A good grounding in this area facilitates group dynamics in research and provides a critical foundation for quality research.</p> <p><b>Topics covered include:</b></p> <ul style="list-style-type: none"> <li># Basic descriptive data</li> <li># Probability and inference</li> <li># Analysis of two-way tables</li> <li># Differences of Means</li> <li># Simple correlation</li> </ul>

	<ul style="list-style-type: none"> <li># Case-series, cross-sectional, cohort, case-control studies and Randomised Clinical Trials (RCTs)</li> <li># Measurement of exposure</li> <li># Bias, random error and individual variation (including response variation)</li> <li># Sample size and power</li> </ul>
<b>Learning Outcomes:</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>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>	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>Links to further information:</b>	<a href="http://www.commercial.unimelb.edu.au/courses">http://www.commercial.unimelb.edu.au/courses</a>
<b>Related Course(s):</b>	<p>Graduate Certificate in Clinical Research  Graduate Diploma in Clinical Research  Graduate Diploma in Mental Health Science  Master of Clinical Research  Master of Mental Health Science  Professional Certificate in Clinical Research</p>