

505-108 Data Management & Statistical Computing

Credit Points:	12.50
Level:	9 (Graduate/Postgraduate)
Dates & Locations:	Distance only
Time Commitment:	Contact Hours: None Total Time Commitment: 8-12 hours total study time per week
Prerequisites:	None
Corequisites:	None
Recommended Background Knowledge:	None
Non Allowed Subjects:	None
Core Participation Requirements:	<p><p>For the purposes of considering request for Reasonable Adjustments under the Disability Standards for Education (Cwth 2005), and Student Support and Engagement Policy, academic requirements for this subject are articulated in the Subject Overview, Learning Outcomes, Assessment and Generic Skills sections of this entry.</p> <p>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 subject are encouraged to discuss this matter with a Faculty Student Adviser and Student Equity and Disability Support: http://services.unimelb.edu.au/disability</p></p>
Contact:	<p>SEMESTER 1: Professor Cate D'Este & Mr Stephen Hancock, University of Newcastle</p> <p>SEMESTER 2: Professor John Carlin, University of Melbourne</p> <p>Biostatistics Collaboration of Australia</p> <p>School of Population Health, University of Melbourne</p>
Subject Overview:	Topics include data management concepts, introduction to Stata and SAS, data management using Stata and SAS. Data management principles and concepts are developed using relational database software (Microsoft Access). Data manipulation, descriptive analyses and interpretation are introduced using SAS and Stata statistical software
Objectives:	The aim of this course is to introduce students to essential concepts and tools required for the management and analysis of data using modern statistical software. Students will also acquire skills in data display, summary presentation and pattern recognition using these tools.
Assessment:	Three written assignments to be submitted during semester, two worth 15% each (approx 6 hrs work each) and one worth 30% (approx 10 hrs work) One at-home examination at the end of Semester, worth 40% (approx 12 hrs work).
Prescribed Texts:	Cody, R., Smith, J. Applied Statistics and the SAS Programming Language, 5th edition, Prentice-Hall, 2005. (ISBN 0131465325) Hills, M and De Stavola, B, A Short Introduction to Stata for Biostatistics, Timberlake, 2006. – order online at www.survey-design.com.au Resources Provided to Students: Printed course notes and assignment material provided by mail and email, and online interaction facilities. Special Computer Requirements: SAS AND Stata software as well as Microsoft Access. For advice about purchasing these packages (education license prices); see "Study Resources" at: www.bca.edu.au/student_info.htm
Recommended Texts:	None
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, 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