512-320 Research Methods 3

Credit Points:	12.50
Level:	3 (Undergraduate)
Dates & Locations:	2009, This subject commences in the following study period/s: Semester 1, - Taught on campus. Semester 2, - Taught on campus.
Time Commitment:	Contact Hours: Twenty-four hours of lectures, 12 hours of laboratory classes. [Estimated total time commitment of 120 hours.] Total Time Commitment: 120 hours
Prerequisites:	512-220 (or equivalent).
Corequisites:	None
Recommended Background Knowledge:	None
Non Allowed Subjects:	None
Core Participation Requirements:	It is University policy to take all reasonable steps to minimise the impact of disability upon academic study and reasonable steps will be made to enhance a student's participation in the University's programs. This subject requires all students to actively and safely participate in laboratory activities. Students who feel their disability may impact upon their participation are encouraged to discuss this with the subject coordinator and the Disability Liaison Unit.
Coordinator:	Dr Paul L Dudgeon
Subject Overview:	In this subject students acquire the design and analysis skills needed to undertake psychological research studies of realistic complexity. The subject builds on studies in 512-220 Quantitative Methods for Psychology 2, emphasising the design and measurement issues involved in research designs with multiple independent variables. Topics will be selected from the nature of designed experiments; planned and post-hoc comparisons; the analysis of trend; statistical power and effect size; repeated measures designs; factorial experiments with mixed between-subjects and within-subjects treatment factors; and multiple regression. The subject also introduces the analysis of multivariate data using factor analysis.
Objectives:	.
Assessment:	One three-hour examination (95%) and three homework exercises (5%).Each piece of assessment must be completed (hurdle requirement).Attendance at 80% or more of the laboratory classes is a hurdle requirement. In case of failure to meet the hurdle requirement, additional work will be required before a passing grade can be awarded.
Prescribed 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:	On completion of this subject, students should be able to: design and analyse a multifactor experiment to test a set of research hypotheses; assess the relationships that exist within a set of psychological data and develop a quantitative model that expresses those relationships; identify strengths and weaknesses in the design and analysis of research in the psychological literature; carry out a range of data-analytic tasks in univariate and multivariate settings using the statistical package SPSS.

Notes:	Students can complete 620-371 Linear Models as an alternative to 512-320 Research Methods 3. Students enrolled in the BSc (pre-2008), BASc or a combined BSc course may receive science credit for the completion of this subject. Students undertaking psychology subjects can receive credit toward *either* the science *or* arts requirement of the BASc or BA/BSc course. Credit for psychology cannot be split between the two components. Students should advise the Faculty of Science if they would like psychology to count toward the science requirement of their BASc or BA/BSc course.
Related Majors/Minors/ Specialisations:	Psychology Major