Description: Advanced Research Methods and Statistics

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<tr>
<th>Subject</th>
<th>Cat-nbr</th>
<th>Class</th>
<th>Term</th>
<th>Mode</th>
<th>Units</th>
<th>Campus</th>
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Academic group: FOSCI
Academic org: FOS005
Student contribution band: 1
ASCE code: 090701

STAFFING
Examiner: Jeff Patrick
Moderator: Gerry Tehan

REQUISITES
Pre-requisite: Students must be enrolled in Program: MAPS

RATIONALE
A sound knowledge of research design and the statistical methods with which they are associated is central to research in the behavioural sciences and to the practice of psychology. This course is designed to provide students with a background in two distinct paradigms of research in psychology with the expectation that they will acquire and be able to apply high level design and statistical skills when conducting psychological research.

SYNOPSIS
This course is divided into two parts each of six weeks duration. Students will be presented with two fundamental research paradigms from disciplines within Psychology. In each part, students will study: the historical basis of the paradigm; its theoretical basis; formulation of relevant hypotheses; study an experimental design associated with the paradigm; conduct an experiment; perform statistical analyses appropriate to the experimental design and write a report in APA journal format describing the research and its results. The first part concerns the principles of psychological testing, concentrating on questions of reliability and validity, norms, item analysis and the interpretation and evaluation of tests in general. The second part deals with the issues involved in research in cognitive experimental psychology. A typical memory paradigm will be highlighted and the problems associated with this paradigm will be explored. This course has a compulsory Residential School. Enrolment is only available to students enrolled in the MAAppPsy program and students in the Psychology major of the BSc who have permission from the Program Coordinator to enrol in the course.
Students will need to be able to access the website http://www.usq.edu.au/users/senior for this course.

**OBJECTIVES**

On completion of this course students will be able to:

- apply the principles underlying hypothesis formation, hypothesis testing, research design, and the application of appropriate statistical methods;
- conduct graduate level research within the context of a number of different paradigms studied;
- utilise the basics and some advanced aspects of statistical analysis with the SPSS statistical package.

**TOPICS**

<table>
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<tr>
<th>Description</th>
<th>Weighting (%)</th>
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<tbody>
<tr>
<td>1. Module 1 - Program Evaluation</td>
<td>33.33</td>
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<tr>
<td>2. Module 2 - Cognitive Experimental Psychology</td>
<td>33.34</td>
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<td>3. Module 3 - Principle of Psychological Testing</td>
<td>33.33</td>
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**TEXT and MATERIALS required to be PURCHASED or ACCESSED:**

ALL textbooks and materials are available for purchase from USQ BOOKSHOP (unless otherwise stated). Orders may be placed via secure internet, free fax 1800642453, phone 07 46312742 (within Australia), or mail. Overseas students should fax +61 7 46311743, or phone +61 7 46312742. For costs, further details, and internet ordering, use the 'Textbook Search' facility at http://bookshop.usq.edu.au click 'Semester', then enter your 'Course Code' (no spaces).

SPSS Student pack (Version 11.5). Note: For Toowoomba students this is an optional purchase. However, for non-Toowoomba students this is a mandatory purchase. Other materials are supplied in each Module.

**REFERENCE MATERIALS:**
Reference materials are materials that, if accessed by students, may improve their knowledge and understanding of the material in the course and enrich their learning experience.

**STUDENT WORKLOAD REQUIREMENTS:**

<table>
<thead>
<tr>
<th>ACTIVITY</th>
<th>HOURS</th>
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<tbody>
<tr>
<td>Assessment</td>
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<tr>
<td>Directed Study</td>
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<td>Private Study</td>
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<td>Residential Schools</td>
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**ASSESSMENT DETAILS**

<table>
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<tr>
<th>Description</th>
<th>Marks out of</th>
<th>Wtg(%)</th>
<th>Due date</th>
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<td>ASSIGNMENT 2</td>
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<td>ASSIGNMENT 3</td>
<td>100.00</td>
<td>33.00</td>
<td>11 Jun 2004</td>
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**IMPORTANT ASSESSMENT INFORMATION**

1. Attendance requirements:
   Students must attend the compulsory residential school. In addition, it is the students' responsibility to study all material provided to them or required to be accessed by them to maximise their chance of meeting the objectives of the course and to be informed of course-related activities and administration.

2. Requirements for students to complete each assessment item satisfactorily:
   Students do not have to complete each item satisfactorily to gain a passing grade in the course.

3. Penalties for late submission of required work:
   No penalties applied for late submission. However, students must hand in all assessment before the end of the exam period. Failure to do so will result in a Fail grade.

4. Requirements for student to be awarded a passing grade in the course:
   To be assured of a passing grade a student must achieve at least 50% of the available marks for the summative assessment items.

5. Method used to combine assessment results to attain final grade:
   The final grades for students will be assigned on the basis of the aggregate of the weighted marks obtained for each of the summative assessment items.

6. Examination information:
   There are no examinations in this course.
7 Examination period when Deferred/Supplementary examinations will be held:
There will be no supplementary or deferred examinations for this course.

8 University Regulations:
   Students should read USQ Regulations 5.1 Definitions, 5.6. Assessment, and 5.10
   Academic Misconduct for further information and to avoid actions which might
   contravene University Regulations. These regulations can be found at the URL
   http://www.usq.edu.au/corporateservices/calendar/part5.htm or in the current USQ
   Handbook

ASSESSMENT NOTES

9 The due date for an assignment is the date by which a student must despatch the
   assignment to the USQ. The onus is on the student to provide proof of the despatch
date, if requested by the Examiner.

10 Students must retain a copy of each item submitted for assessment. This must be
despatched to USQ within 24 hours of a request being received from the Examiner
to do so.

11 The examiner may grant an extension of the due date of an assignment in
   extenuating circumstances.

12 Students who have undertaken all of the required assessments in the course but
   who have failed to meet some of the specified objectives within the normally
   prescribed time may be awarded the temporary grade of IM (Incomplete - Make
   up). An IM grade will only be awarded when, in the opinion of the examiner, a
   student will be able to achieve the remaining objectives of the course after a period
   of non-directed personal study.

13 Students who, for medical, family/personal, or employment-related reasons, are
   unable to complete an assignment may apply to defer an assessment in a course.
   Such a request must be accompanied by appropriate supporting documentation.
   The temporary grade of IDM (Incomplete Deferred Make-up) may then be awarded.

14 This course has a compulsory Residential School.

15 Students must have internet access for this course.