



The University of Southern Queensland

## Course specification

The current and official versions of the course specifications are available on the web at <http://www.usq.edu.au/coursespecification/current>.  
Please consult the web for updates that may occur during the year.

### Description: Research Methods in Psychology B

Subject	Cat-nbr	Class	Term	Mode	Units	Campus
PSY	2110	90959	2, 2009	ONC	1.00	Springfield

<b>Academic group:</b>	FOSCI
<b>Academic org:</b>	FOS005
<b>Student contribution band:</b>	1
<b>ASCED code:</b>	090701

### STAFFING

Examiner: Tony Machin  
Moderator: Andrea Lamont-Mills

### RATIONALE

The discipline of psychology is based on a solid foundation of scientific research. Researchers use a variety of conceptual, logical and mathematical tools to reduce uncertainty in the state of psychological knowledge. This course introduces more advanced research methodologies and statistical techniques.

### SYNOPSIS

This course builds upon the basic methods and tools of psychological research, extending the range and complexity of questions which can be addressed. A variety of research designs are introduced including complex experimental and quasi-experimental designs and single-subject designs as ways of answering specific questions and dealing with potential confounds. The statistical and analytic tools associated with these more advanced techniques are also explored including factorial analysis of variance, and multiple regression. Students will need access to the SPSS software package throughout this course and will also need to access the internet for participation in a research project.

### OBJECTIVES

On completion of this course students will be able to:

1. describe different research designs, identify when it is appropriate to use them, and the various factors that contribute to internal and external validity (Exam);
2. identify the theoretical concepts used in a study, the variables used to operationalise these concepts, and the control techniques used (Exam);
3. propose research questions and hypotheses to test psychological concepts and theories and select the most appropriate analytic technique (Assignment 2);
4. demonstrate an understanding of more advanced statistical analyses such as factorial analysis of variance, and multiple regression and be able to calculate power and effect sizes for these analysis (Assignment 2, Exam);

5. use SPSS to analyse psychological research data and be able to interpret the overall significance of each test as well as measures of effect size and observed power (Assignment 2);
6. write an extended research report in APA style focusing on the link between the research question, the rationale for the analytic technique used, the results of the analyses and the importance and meaning of the results (Assignment 2);
7. identify the ethical guidelines researchers must follow and describe how researchers implement these guidelines in actual studies (Assignment 1).

## TOPICS

	Description	Weighting (%)
1.	Introduction to the controversy surrounding null hypothesis significance testing	10.00
2.	Complex factorial designs and factorial ANOVA	20.00
3.	The importance of the general linear model	10.00
4.	Repeated measures and mixed designs	20.00
5.	Quasi-experimental designs	20.00
6.	Single case designs	10.00
7.	Ethical issues in research	10.00

## 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 version 12.0 (version 10.0 or later is acceptable) for Windows, Prentice Hall.

Aron, A, Aron, EN & Coups, EJ 2009, *Statistics for psychology (International edition)*, 5th edn, Prentice Hall, Upper Saddle River, New Jersey.

Burton, LJ 2006, *An interactive approach to writing essays and research reports in psychology*, 2nd edn, John Wiley & Sons, Brisbane, Australia.

Shaughnessy, JJ, Zechmeister, EB & Zechmeister, JS 2009, *Research methods in psychology*, 8th edn, McGraw Hill, Boston.

Whitley, T 2009, *Statistics for psychology: study guide and computer workbook (International Edition)*, 5th edn, Prentice Hall, Upper Saddle River, New Jersey.

## 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.

All recommended readings for this course are available from the following website:  
<http://www.usq.edu.au/course/materials/PSY2110>

## STUDENT WORKLOAD REQUIREMENTS

ACTIVITY	HOURS
Assessments	20.00
Directed Study	52.00
Examinations	2.00
Laboratory or Practical Classes	24.00
Lectures	24.00
Private Study	50.00

## ASSESSMENT DETAILS

Description	Marks out of	Wtg (%)	Due date
ONLINE QUIZ 1	1.00	0.00	27 Jul 2009
ASSIGNMENT 1	10.00	5.00	17 Aug 2009
ONLINE QUIZ 2	20.00	10.00	07 Sep 2009
ONLINE QUIZ 3	30.00	15.00	19 Oct 2009
ASSIGNMENT 2	80.00	40.00	26 Oct 2009
PART A OF 2HR REST EXAM (M/C)	50.00	25.00	END S2 (see note 1)
PART B OF 2HR REST EXAM (S/A)	10.00	5.00	END S2

### NOTES

1. Examination dates will be available during the Semester. Please refer to the examination timetable when published.

## IMPORTANT ASSESSMENT INFORMATION

- 1 Attendance requirements:  
It is the student's responsibility to participate actively in all course activities and to study all course materials, so as to be informed of all course academic and administrative actions and policies, and to maximize his/her chance of meeting the objectives of the course.
- 2 Requirements for students to complete each assessment item satisfactorily:  
To satisfactorily complete an assessment item a student must achieve at least 50% of the marks or a grade of at least C-. Students do not have to satisfactorily complete each

- assessment item to be awarded a passing grade in this course. Refer to Statement 4 below for the requirements to receive a passing grade in this course.
- 3 Penalties for late submission of required work:  
If students submit assignments after the due date without (prior) approval of the examiner then a penalty of 5% of the total marks gained by the student for the assignment may apply for each working day late up to ten working days at which time a mark of zero may be recorded. No assignments will be accepted after model answers have been posted.
  - 4 Requirements for student to be awarded a passing grade in the course:  
To be assured of receiving a passing grade a student must achieve at least 50% of the total weighted marks available for the course.
  - 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/grades obtained of the summative assessment items in the course.
  - 6 Examination information:  
Candidates are allowed access only to specific materials during a Restricted Examination. The only materials that candidates may use in the restricted examination for this course are: writing materials (non-electronic and free from material which could give the student an unfair advantage in the examination); calculators which cannot hold textual information (students must indicate on their examination paper the make and model of any calculator(s) they use during the examination). Students whose first language is not English, may, take an appropriate unmarked nonelectronic translation dictionary (but not technical dictionary) into the examination. Dictionaries with any handwritten notes will not be permitted. Translation dictionaries will be subject to perusal and may be removed from the candidate's possession until appropriate disciplinary action is completed if found to contain material that could give the candidate an unfair advantage.
  - 7 Examination period when Deferred/Supplementary examinations will be held:  
Any Deferred or Supplementary examinations for this course will be held during the next examination period.
  - 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 Students must have internet access and regularly access the USQ Study Desk throughout the course. Students will be required to participate in online research projects and to monitor the discussion group and course home page where all important announcements are posted.
- 10 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
- 11 Students must retain a copy of each item submitted for assessment. This must be produced within five days if required by the Examiner.
- 12 The examiner may grant an extension of the due date of an assignment in extenuating circumstances.

- 13 The Faculty will normally only accept assessments that have been written, typed or printed on paper-based media.
- 14 Students who do not have regular access to postal services or who are otherwise disadvantaged by these regulations may be given special consideration. They should contact the examiner of the course to negotiate such special arrangements.
- 15 Students who, for medical, family/personal, or employment-related reasons, are unable to complete an assignment or to sit for an examination at the scheduled time may apply to defer an assessment in a course. Such a request must be accompanied by appropriate supporting documentation. One of the following temporary grades may be awarded: IDS (Incomplete - Deferred Examination); IDM (Incomplete - Deferred Make-up); IDB (Incomplete - Both Deferred Examination and Deferred Make-up).