PSYC13015 *Advanced Methods in Psychology*
Term 2 - 2017

Profile information current as at 20/04/2024 03:04 pm

All details in this unit profile for PSYC13015 have been officially approved by CQUniversity and represent a learning partnership between the University and you (our student). The information will not be changed unless absolutely necessary and any change will be clearly indicated by an approved correction included in the profile.

General Information

Overview
This unit provides students with analytic skills necessary for carrying out advanced applied research. The unit provides for both theoretical input and a component of computer 'hands-on' experiential exercises. It is a requirement of this enrolment that students have access to the CQU website via the Internet. The primary aim of the unit is to introduce students to a variety of univariate and multivariate analytic techniques (e.g., t-test, ANOVA, GLM) as well as a choice of appropriate analyses relevant to the specific design. A practical workshop will be provided in the unit to assist in development of core skills.

Details
Career Level: *Undergraduate*
Unit Level: *Level 3*
Credit Points: *6*
Student Contribution Band: *7*
Fraction of Full-Time Student Load: *0.125*

Pre-requisites or Co-requisites
PSYC12047 and PSYC12048.
Important note: Students enrolled in a subsequent unit who failed their pre-requisite unit, should drop the subsequent unit before the census date or within 10 working days of Fail grade notification. Students who do not drop the unit in this timeframe cannot later drop the unit without academic and financial liability. See details in the Assessment Policy and Procedure (Higher Education Coursework).

Offerings For Term 2 - 2017

- Bundaberg
- Distance
- Rockhampton

Attendance Requirements
All on-campus students are expected to attend scheduled classes – in some units, these classes are identified as a mandatory (pass/fail) component and attendance is compulsory. International students, on a student visa, must maintain a full time study load and meet both attendance and academic progress requirements in each study period (satisfactory attendance for International students is defined as maintaining at least an 80% attendance record).

Website
This unit has a website, within the Moodle system, which is available two weeks before the start of term. It is important that you visit your Moodle site throughout the term. Please visit Moodle for more information.

Class and Assessment Overview

Recommended Student Time Commitment

Each 6-credit Undergraduate unit at CQUniversity requires an overall time commitment of an average of 12.5 hours of study per week, making a total of 150 hours for the unit.

Class Timetable

Regional Campuses
Bundaberg, Cairns, Emerald, Gladstone, Mackay, Rockhampton, Townsville

Metropolitan Campuses
Adelaide, Brisbane, Melbourne, Perth, Sydney

Assessment Overview

1. **Practical Assessment**
Weighting: 20%
2. **Portfolio**
Weighting: 20%
3. **Practical and Written Assessment**
Weighting: 30%
4. **Examination**
Weighting: 30%

Assessment Grading

This is a graded unit: your overall grade will be calculated from the marks or grades for each assessment task, based on the relative weightings shown in the table above. You must obtain an overall mark for the unit of at least 50%, or an overall grade of 'pass' in order to pass the unit. If any 'pass/fail' tasks are shown in the table above they must also be completed successfully ('pass' grade). You must also meet any minimum mark requirements specified for a particular assessment task, as detailed in the 'assessment task' section (note that in some instances, the minimum mark for a task may be greater than 50%). Consult the University's Grades and Results Policy for more details of interim results and final grades.

CQUniversity Policies

All University policies are available on the CQUniversity Policy site.
You may wish to view these policies:

- Grades and Results Policy
- Assessment Policy and Procedure (Higher Education Coursework)
- Review of Grade Procedure
- Student Academic Integrity Policy and Procedure
- Monitoring Academic Progress (MAP) Policy and Procedure – Domestic Students
- Monitoring Academic Progress (MAP) Policy and Procedure – International Students
- Student Refund and Credit Balance Policy and Procedure
- Student Feedback – Compliments and Complaints Policy and Procedure
- Information and Communications Technology Acceptable Use Policy and Procedure

This list is not an exhaustive list of all University policies. The full list of University policies are available on the CQUniversity Policy site.

Previous Student Feedback

Feedback, Recommendations and Responses

Every unit is reviewed for enhancement each year. At the most recent review, the following staff and student feedback items were identified and recommendations were made.

Feedback from post-residential school survey, course evaluation

Feedback
Lack of on campus support for on campus students - especially in Rockhampton and Bundeburg

Recommendation
Consider a second residential school in Rockhampton or an on campus tutor in Bundeburg and Rockhampton to run the collaborates

Feedback from Student feedback

Feedback
The textbook is overwhelming

Recommendation
Consider options for changing or supplementing the currently subscribed textbook.

Feedback from Student feedback, post-residential school survey

Feedback
The residential school should have more face to face time

Recommendation
Increase face-to-face time either by having a supporting teacher and running concurrent sessions, or running the residential school over 3 days instead of 2

Unit Learning Outcomes

On successful completion of this unit, you will be able to:

1. Prepare data sets suitable for analysis in SPSS.
2. Choose and demonstrate working knowledge of appropriate statistical tools for analyses.
3. Analyse data using SPSS.
4. Write-up the results of an analysis in clear and concise APA style.

Alignment of Learning Outcomes, Assessment and Graduate Attributes

— N/A Level ◦ Introductory Level • Intermediate Level • Graduate Level ◦ Professional Level ◦ Advanced Level

Alignment of Assessment Tasks to Learning Outcomes

Assessment Tasks	Learning Outcomes			
	1	2	3	4
1 - Practical Assessment - 20%	•	•	•	•
2 - Portfolio - 20%	•	•	•	•
3 - Practical and Written Assessment - 30%	•	•	•	•
4 - Examination - 30%				•

Alignment of Graduate Attributes to Learning Outcomes

Graduate Attributes	Learning Outcomes			
	1	2	3	4
1 - Communication				•
2 - Problem Solving		•	•	
3 - Critical Thinking	•	•		•
4 - Information Literacy				
5 - Team Work				
6 - Information Technology Competence	•		•	
7 - Cross Cultural Competence				
8 - Ethical practice				
9 - Social Innovation				
10 - Aboriginal and Torres Strait Islander Cultures				

Alignment of Assessment Tasks to Graduate Attributes

Assessment Tasks	Graduate Attributes									
	1	2	3	4	5	6	7	8	9	10
1 - Practical Assessment - 20%	•	•	•			•				
2 - Portfolio - 20%	•					•				
3 - Practical and Written Assessment - 30%	•	•	•			•				
4 - Examination - 30%	•	•	•							

Textbooks and Resources

Textbooks

PSYC13015

Prescribed

Discovering Statistics using IBM SPSS Statistics
4th Edition (2013)
Authors: Andy Field
Sage
London , UK
Binding: Paperback
PSYC13015

Prescribed

SPSS Statistics software
(2013)
Authors: IBM
IBM
USA
Binding: Hardcover

View textbooks at the CQUniversity Bookshop

IT Resources

You will need access to the following IT resources:

- CQUniversity Student Email
- Internet
- Unit Website (Moodle)
- IBM SPSS Statistics Graduate Pack edition. Preferably the latest version 24

Referencing Style

All submissions for this unit must use the referencing style: American Psychological Association 6th Edition (APA 6th edition)
For further information, see the Assessment Tasks.

Teaching Contacts

Darren Walker Unit Coordinator
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Schedule

Week 1 - 10 Jul 2017

Module/Topic	Chapter	Events and Submissions/Topic
Introduction to Statistics	Field Ch 1-5	

Week 2 - 17 Jul 2017

Module/Topic	Chapter	Events and Submissions/Topic
T-tests	Field Ch 9	

Week 3 - 24 Jul 2017

Module/Topic	Chapter	Events and Submissions/Topic

One-way ANOVA	Field Ch 11	

Week 4 - 31 Jul 2017

Module/Topic	Chapter	Events and Submissions/Topic
Factorial ANOVA (Introduction)	Field Ch 13	

Week 5 - 07 Aug 2017

Module/Topic	Chapter	Events and Submissions/Topic
Further ANOVA (Mixed designs)	Field Ch 15	

Vacation Week - 14 Aug 2017

Module/Topic	Chapter	Events and Submissions/Topic

Week 6 - 21 Aug 2017

Module/Topic	Chapter	Events and Submissions/Topic
Recap and Refresh		

Week 7 - 28 Aug 2017

Module/Topic	Chapter	Events and Submissions/Topic
Correlation and regression	Field Ch 7 & 8	**Practical Assessment** Due: Week 7 Friday (1 Sept 2017) 5:30 am AEST

Week 8 - 04 Sep 2017

Module/Topic	Chapter	Events and Submissions/Topic
ANCOVA	Field Ch 12	

Week 9 - 11 Sep 2017

Module/Topic	Chapter	Events and Submissions/Topic
Non-parametric tests	Field Ch 6	

Week 10 - 18 Sep 2017

Module/Topic	Chapter	Events and Submissions/Topic
Categorical data	Field Ch 18	

Week 11 - 25 Sep 2017

Module/Topic	Chapter	Events and Submissions/Topic
Recap and refresh		**Practical and Written Assessment** Due: Week 11 Friday (29 Sept 2017) 5:30 pm AEST

Week 12 - 02 Oct 2017

Module/Topic	Chapter	Events and Submissions/Topic
Exam preparation		**Portfolio** Due: Week 12 Friday (6 Oct 2017) 5:30 am AEST

Review/Exam Week - 09 Oct 2017

Module/Topic	Chapter	Events and Submissions/Topic

Exam Week - 16 Oct 2017

Module/Topic	Chapter	Events and Submissions/Topic

Term Specific Information

Note:
1) A valid license (for the entire term) of IBM SPSS is required to complete this unit, unless you intend gaining access on a physical campus. The software may be purchased from the bookshop or online from the Australian distributor - Hearne Software (http://www.hearne.software). If you currently have a license of SPSS, please check when the license will expire and renew if necessary. Version 24 is the latest (you should obtain the 'Graduate Pack' edition, the cheaper 'Base' edition is not suitable) and this software is also used in higher level honours data analysis courses.
2) There is no 'optional' residential school for this Unit in 2017. There will be wide usage of Zoom tutorials and video based demonstrations to teach SPSS and associated statistical techniques.

Assessment Tasks

1 Practical Assessment

Assessment Type
Practical Assessment

Task Description
The assignment will be provided in week 4. You will be asked to answer a series of short answer questions. You will need to enter data into SPSS, run statistical tests and analyse the data in order to find the answers for these questions.

Assessment Due Date
Week 7 Friday (1 Sept 2017) 5:30 am AEST

Return Date to Students
Week 9 Friday (15 Sept 2017)

Weighting
20%

Assessment Criteria
Each of the short answer questions will be worth a proportion of the total marks for this assessment. The amount each question is worth will be explicitly stated on the assessment.

Referencing Style

- American Psychological Association 6th Edition (APA 6th edition)

Submission
Online

Learning Outcomes Assessed

- Prepare data sets suitable for analysis in SPSS.
- Choose and demonstrate working knowledge of appropriate statistical tools for analyses.
- Analyse data using SPSS.
- Write-up the results of an analysis in clear and concise APA style.

Graduate Attributes

- Communication
- Problem Solving
- Critical Thinking
- Information Technology Competence

2 Portfolio

Assessment Type
Portfolio

Task Description
You will be given data sets for each statistical test covered in the unit. You will be required to enter the data into SPSS, analyse these data and write up their analysis in brief APA style. There will be ten data sets. You will be required to submit five (5) with each worth 4% of your total grade. You can submit these throughout the unit and receive feedback (please allow two weeks for feedback on each

submission) or you can do them all at once. All five need to be submitted by the end of week 12.

Assessment Due Date
Week 12 Friday (6 Oct 2017) 5:30 am AEST

Return Date to Students
Exam Week Friday (20 Oct 2017)

Weighting
20%

Assessment Criteria
Each piece will be worth 4% of your total grade (4% x 5 = 20%). Students will be awarded 2 marks (2/4) for conducting the analysis correctly (entering the data into SPSS and performing the analysis) and 2 marks (2/4) for correct APA write up.

Referencing Style

- American Psychological Association 6th Edition (APA 6th edition)

Submission
Online

Submission Instructions
You can submit the portfolio throughout the unit or as one assessment item in week 12.

Learning Outcomes Assessed

- Prepare data sets suitable for analysis in SPSS.
- Choose and demonstrate working knowledge of appropriate statistical tools for analyses.
- Analyse data using SPSS.
- Write-up the results of an analysis in clear and concise APA style.

Graduate Attributes

- Communication
- Information Technology Competence

3 Practical and Written Assessment

Assessment Type
Practical and Written Assessment

Task Description
A synopsis of a research problem with accompanying data set(s) will be provided in week 7. You are to select the appropriate procedures from the material taught in the unit, and analyze the data using SPSS. You will write up a report on the results, using graphs and tables as required. You will also interpret and discuss the results in light of the research problem provided. The submission will be in the form of an abbreviated APA-style report, with a 'Results' and 'Discussion' section.

Assessment Due Date
Week 11 Friday (29 Sept 2017) 5:30 pm AEST

Return Date to Students
Review/Exam Week Friday (13 Oct 2017)

Weighting
30%

Assessment Criteria

- Appropriate selection and application of the relevant statistical procedures and techniques, including any required screening and/or data pre-processing. (20%)
- Appropriate presentation and interpretation of the results, including the use of well-formatted graphs and tables as appropriate (40%)
- Appropriate critical discussion and explanation of the results in light of the research question(s), including an acknowledgement (if required) of any strengths and weaknesses of the analysis(40%)

Referencing Style

- American Psychological Association 6th Edition (APA 6th edition)

Submission
Online

Learning Outcomes Assessed

- Prepare data sets suitable for analysis in SPSS.
- Choose and demonstrate working knowledge of appropriate statistical tools for analyses.
- Analyse data using SPSS.
- Write-up the results of an analysis in clear and concise APA style.

Graduate Attributes

- Communication
- Problem Solving
- Critical Thinking
- Information Technology Competence

Examination

Outline
Complete an invigilated examination.

Date
During the examination period at a CQUniversity examination centre.

Weighting
30%

Length
180 minutes

Exam Conditions
Closed Book.

Materials
Calculator - non-programmable, no text retrieval, silent only
Dictionary - non-electronic, concise, direct translation only (dictionary must not contain any notes or comments).

Academic Integrity Statement

As a CQUniversity student you are expected to act honestly in all aspects of your academic work.

Any assessable work undertaken or submitted for review or assessment must be your own work. Assessable work is any type of work you do to meet the assessment requirements in the unit, including draft work submitted for review and feedback and final work to be assessed.

When you use the ideas, words or data of others in your assessment, you must thoroughly and clearly acknowledge the source of this information by using the correct referencing style for your unit. Using others' work without proper acknowledgement may be considered a form of intellectual dishonesty.

Participating honestly, respectfully, responsibly, and fairly in your university study ensures the CQUniversity qualification you earn will be valued as a true indication of your individual academic achievement and will continue to receive the respect and recognition it deserves.

As a student, you are responsible for reading and following CQUniversity's policies, including the **Student Academic Integrity Policy and Procedure**. This policy sets out CQUniversity's expectations of you to act with integrity, examples of academic integrity breaches to avoid, the processes used to address alleged breaches of academic integrity, and potential penalties.

What is a breach of academic integrity?
A breach of academic integrity includes but is not limited to plagiarism, self-plagiarism, collusion, cheating, contract cheating, and academic misconduct. The Student Academic Integrity Policy and Procedure defines what these terms mean and gives examples.

Why is academic integrity important?
A breach of academic integrity may result in one or more penalties, including suspension or even expulsion from the University. It can also have negative implications for student visas and future enrolment at CQUniversity or elsewhere. Students who engage in contract cheating also risk being blackmailed by contract cheating services.

Where can I get assistance?
For academic advice and guidance, the Academic Learning Centre (ALC) can support you in becoming confident in completing assessments with integrity and of high standard.

What can you do to act with integrity?

Be Honest
If your assessment task is done by someone else, it would be dishonest of you to claim it as your own

Seek Help
If you are not sure about how to cite or reference in essays, reports etc, then seek help from your lecturer, the library or the Academic Learning Centre (ALC)

Produce Original Work
Originality comes from your ability to read widely, think critically, and apply your gained knowledge to address a question or problem