



PSYC13015 *Advanced Methods in Psychology*

Term 2 - 2020

Profile information current as at 26/04/2024 09:44 am

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 will give you the analytic skills necessary to carry out advanced applied research. There is both theory and computer 'hands-on' experiential exercises. The primary aim of the unit is to introduce you to a variety of univariate and multivariate analytic techniques (e.g., t-test, ANOVA, ANCOVA, Regression, GLM) as well as developing skills in applying appropriate analyses relevant to a specific research design. It builds on earlier units by introducing more advanced statistical techniques and requires the use of industry standard software packages such as SPSS. Online tutorial sessions allow the chance to practice core SPSS 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 - 2020

- Adelaide
- Bundaberg
- Cairns
- Online
- Rockhampton
- Townsville

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. **Written Assessment**

Weighting: 15%

2. **Research Assignment**

Weighting: 40%

3. **Report**

Weighting: 45%

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 Staff self-reflection, students via Moodle and email.

Feedback

Two Zoom workshops per week were positively received.

Recommendation

Maintain this level of interaction to negate the need for a residential school.

Feedback from Staff self reflection, students via Moodle and email.

Feedback

Present less analysis options, focus on need to know, versus nice to know.

Recommendation

Clearly signpost what is essential to know and provide step-by-step instructional materials for this. Identify what is nice to know (e.g. for students going on to honours) and provide some advanced extra materials for students wanting more depth.

Feedback from Staff self reflection, students via Moodle and email.

Feedback

Main textbook continues to polarize opinions, with many students really liking it, but others finding the content too detailed.

Recommendation

The main textbook will be retained as many students find it helpful for understanding statistical theory. Moreover, it is used in similar units across Australian universities. A supplemental textbook will be recommended, providing more step-by-step instructions on using SPSS.

Unit Learning Outcomes

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

1. Prepare data sets suitable for analysis in SPSS
2. Utilise advanced working knowledge of appropriate statistical tests for analyses in SPSS
3. Write-up the results of advanced analyses in scientific APA style.

The external accrediting body is Australian Psychology Accreditation Council (APAC). The unit fulfills one of the key foundational competencies outlined in the accreditation document for students completing a 3 year psychology degree, i.e. *they will acquire a depth of understanding of underlying principles, theories and concepts in the discipline, using a scientific approach to research methods and statistics*. This is a compulsory (year 3) unit required to successfully complete the course.

Alignment of Learning Outcomes, Assessment and Graduate Attributes



Alignment of Assessment Tasks to Learning Outcomes

Assessment Tasks	Learning Outcomes		
	1	2	3
1 - Research Assignment - 40%	•	•	
2 - Written Assessment - 15%	•		•
3 - Report - 45%		•	•

Alignment of Graduate Attributes to Learning Outcomes

Graduate Attributes	Learning Outcomes		
	1	2	3
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 - Research Assignment - 40%	•	•	•			•				
2 - Written Assessment - 15%	•					•				
3 - Report - 45%	•	•	•	•		•				

Textbooks and Resources

Textbooks

PSYC13015

Prescribed

Discovering Statistics using IBM SPSS Statistics

5th Edition (2017)

Authors: Andy Field

Sage

London , UK

ISBN: 9781526419521

Binding: Paperback

PSYC13015

Supplementary

Publication Manual of the American Psychological Association (APA)

7th Edition (2019)

Authors: American Psychological Association

American Psychological Association

Washington , DC , USA

ISBN: 9781433832161

Binding: Paperback

PSYC13015

Supplementary

SPSS Statistics: A Practical Guide

4th Edition (2018)

Authors: Peter Allen, Kellie Bennett, Brody Heritage

CENGAGE

Australia

ISBN: 9780170421140

Binding: Paperback

Additional Textbook Information

If you prefer to study with a paper copy, they are available at the CQUni Bookshop here: <http://bookshop.cqu.edu.au> (search on the Unit code). eBooks are available at the publisher's website.

[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 (standard or premium) edition. Preferably the latest version 26

Referencing Style

All submissions for this unit must use the referencing styles below:

- [American Psychological Association 6th Edition \(APA 6th edition\)](#)
- [American Psychological Association 7th Edition \(APA 7th edition\)](#)

For further information, see the Assessment Tasks.

Teaching Contacts

Darren Walker Unit Coordinator
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Schedule

Week 1 - 13 Jul 2020

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

Week 2 - 20 Jul 2020

Module/Topic	Chapter	Events and Submissions/Topic
Comparison of Means T tests	Field Ch 10 and 7	Minor Data Analysis assessment dataset available

Week 3 - 27 Jul 2020

Module/Topic	Chapter	Events and Submissions/Topic
Comparison of Means One-Way ANOVA part A	Field Ch 12 and 7	Major Data Analysis assessment dataset available

Week 4 - 03 Aug 2020

Module/Topic	Chapter	Events and Submissions/Topic
Comparison of Means One-Way ANOVA part B	Field Ch 15 and 7	Minor Data Analysis Due: Week 4 Monday (3 Aug 2020) 11:55 pm AEST

Week 5 - 10 Aug 2020

Module/Topic	Chapter	Events and Submissions/Topic
Factorial ANOVA (Introduction)	Field Ch 14 and 15	

Vacation Week - 17 Aug 2020

Module/Topic	Chapter	Events and Submissions/Topic
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Week 6 - 24 Aug 2020

Module/Topic	Chapter	Events and Submissions/Topic
Further ANOVA (e.g. Mixed Designs)	Field Ch 16	

Week 7 - 31 Aug 2020

Module/Topic	Chapter	Events and Submissions/Topic
Categorical data	Field Ch 19	Mini-Report assessment dataset available

Week 8 - 07 Sep 2020

Module/Topic	Chapter	Events and Submissions/Topic
ANCOVA	Field Ch 13	Major Data Analysis Due: Week 8 Monday (7 Sept 2020) 11:55 pm AEST

Week 9 - 14 Sep 2020

Module/Topic	Chapter	Events and Submissions/Topic
Correlation and Regression	Field Ch 8 and 9	

Week 10 - 21 Sep 2020

Module/Topic	Chapter	Events and Submissions/Topic
Bringing it all together	No set textbook chapter	

Week 11 - 28 Sep 2020

Module/Topic	Chapter	Events and Submissions/Topic
Mini-report preparation (Discussion writing)	No set textbook chapter	

Week 12 - 05 Oct 2020

Module/Topic	Chapter	Events and Submissions/Topic
Mini-report preparation (self study)	No set textbook chapter	Mini-Report Due: Week 12 Monday (5 Oct 2020) 11:55 pm AEST

Review/Exam Week - 12 Oct 2020

Module/Topic	Chapter	Events and Submissions/Topic
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Exam Week - 19 Oct 2020

Module/Topic	Chapter	Events and Submissions/Topic
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Assessment Tasks

1 Minor Data Analysis

Assessment Type

Written Assessment

Task Description

You will be given a dataset that requires a one-way Analysis of Variance (ANOVA) covered in the unit. You will be required to enter the data into SPSS, analyse it and write up concisely using APA style.

Assessment Due Date

Week 4 Monday (3 Aug 2020) 11:55 pm AEST

Return Date to Students

Week 6 Monday (24 Aug 2020)

Within 2 teaching weeks of submission

Weighting

15%

Assessment Criteria

The % of marks awarded will be split among the following criteria : appropriate analysis, assumption testing, correct interpretation of statistical output, statistics written concisely in APA format, additional statistics, e.g. effect size, confidence intervals.

Referencing Style

- [American Psychological Association 6th Edition \(APA 6th edition\)](#)
- [American Psychological Association 7th Edition \(APA 7th edition\)](#)

Submission

Online

Learning Outcomes Assessed

- Prepare data sets suitable for analysis in SPSS
- Write-up the results of advanced analyses in scientific APA style.

Graduate Attributes

- Communication
- Information Technology Competence

2 Major Data Analysis

Assessment Type

Research Assignment

Task Description

The assessment will be provided in week 3. You will be asked to complete a series of short answer questions. You will need to enter data into SPSS, run statistical tests and interpret the output in order to find answers to these questions.

Assessment Due Date

Week 8 Monday (7 Sept 2020) 11:55 pm AEST

Return Date to Students

Week 11 Monday (28 Sept 2020)

Within 3 weeks of submission (detailed feedback)

Weighting

40%

Assessment Criteria

Each of the short answer questions will be worth a proportion of the total marks for assessment. The amount each question will be worth will be explicitly stated on the assessment. Marks will reflect the CQUniversity grades descriptor and range. For example, 4 marks out of 5 = 80%, which is a Distinction grade; whilst 3 marks out of 5 = 60% which is a Pass grade.

Referencing Style

- [American Psychological Association 6th Edition \(APA 6th edition\)](#)
- [American Psychological Association 7th Edition \(APA 7th edition\)](#)

Submission

Online

Learning Outcomes Assessed

- Prepare data sets suitable for analysis in SPSS
- Utilise advanced working knowledge of appropriate statistical tests for analyses in SPSS

Graduate Attributes

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

3 Mini-Report

Assessment Type

Report

Task Description

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

Assessment Due Date

Week 12 Monday (5 Oct 2020) 11:55 pm AEST

Return Date to Students

Exam Week Friday (23 Oct 2020)

Within 3 weeks of submission (detailed feedback)

Weighting

45%

Assessment Criteria

1. Appropriate selection and application of the relevant statistical procedures and techniques, including any required screening and/or data pre-processing (15%)
2. Appropriate presentation and interpretation of the results, including the use of well-formatted graphs and/or tables as required (25%)
3. Appropriate critical discussion and explanation of the results in light of the research question (s), including an acknowledgement of any strengths and weaknesses of the analysis (50%)
4. Written expression and use of references (10%)

Referencing Style

- [American Psychological Association 6th Edition \(APA 6th edition\)](#)
- [American Psychological Association 7th Edition \(APA 7th edition\)](#)

Submission

Online

Learning Outcomes Assessed

- Utilise advanced working knowledge of appropriate statistical tests for analyses in SPSS
- Write-up the results of advanced analyses in scientific APA style.

Graduate Attributes

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

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