PSYC13015 *Advanced Methods in Psychology*
Term 2 - 2021

Profile information current as at 06/05/2024 02:51 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 - 2021

- 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 Moodle feedback, email, self-reflection.

Feedback

There is a suitable number of assessment tasks to develop SPSS data analysis skills and writing results in APA style.

Recommendation

Maintain the number and type of assessment tasks in 2021.

Feedback from Moodle feedback, email, self-reflection.

Feedback

Providing too many video resources (e.g., SPSS video demonstrations) from previous years overwhelmed some students.

Recommendation

Only provide one year's worth of past material and signpost whether optional or essential.

Feedback from Moodle feedback, email, self-reflection.

Feedback

Lecturer was patient and wanted students to grasp difficult material.

Recommendation

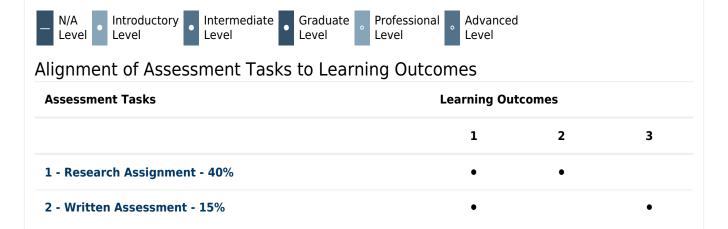Maintain commitment and student engagement in 2021.

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

| — 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
1 - Research Assignment - 40%	●	●	
2 - Written Assessment - 15%	●		●

Assessment Tasks	Learning Outcomes		
	1	2	3
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
Both paper and eBook versions can be purchased at the CQUni Bookshop here: http://bookshop.cqu.edu.au
(search on the Unit code).

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 GradPack. Ideally buy the latest version (v28) and either the Standard or Premium edition. This course requires the Standard feature set.

Referencing Style

All submissions for this unit must use the referencing style: American Psychological Association 7th Edition (APA 7th edition)
For further information, see the Assessment Tasks.

Teaching Contacts

Darren Walker Unit Coordinator
d.j.walker@cqu.edu.au

Schedule

Week 1 - 12 Jul 2021

Module/Topic	Chapter	Events and Submissions/Topic
Introduction to Statistics and SPSS	Field Ch 1-4 (skim expected, see Moodle)	

Week 2 - 19 Jul 2021

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

Week 3 - 26 Jul 2021

Module/Topic	Chapter	Events and Submissions/Topic
Comparison of Means One-Way ANOVA (between-subjects)	Field Ch 12 (full) and 7 (skim)	Major Data Analysis assessment dataset available

Week 4 - 02 Aug 2021

Module/Topic	Chapter	Events and Submissions/Topic
Comparison of Means One-Way ANOVA (within-subjects)	Field Ch 15 (full) and 7 (skim)	**Minor Data Analysis** Due: Week 4 Monday (2 Aug 2021) 11:45 pm AEST

Week 5 - 09 Aug 2021

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

Vacation Week - 16 Aug 2021

Module/Topic	Chapter	Events and Submissions/Topic
	Catch up reading if needed	

Week 6 - 23 Aug 2021

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

Week 7 - 30 Aug 2021

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

Week 8 - 06 Sep 2021

Module/Topic	Chapter	Events and Submissions/Topic
ANCOVA	Field Ch 13	**Major Data Analysis** Due: Week 8 Monday (6 Sept 2021) 11:45 pm AEST

Week 9 - 13 Sep 2021

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

Week 10 - 20 Sep 2021

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

Week 11 - 27 Sep 2021

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

Week 12 - 04 Oct 2021

Module/Topic	Chapter	Events and Submissions/Topic
Mini-report preparation (self study)	No set textbook chapter	**Mini-Report** Due: Week 12 Monday (4 Oct 2021) 11:45 pm AEST

Review/Exam Week - 11 Oct 2021

Module/Topic	Chapter	Events and Submissions/Topic
		No Exam

Exam Week - 18 Oct 2021

Module/Topic	Chapter	Events and Submissions/Topic
		No Exam

Term Specific Information

Dr. Darren Walker (Cairns Campus) ; d.j.walker@cqu.edu.au ; 07-4037-5122
This is an advanced statistics course. Students are expected to have successfully completed PSYC12047. It is suggested students spend a few hours refreshing any lecture notes and/or textbook chapters from this unit prior to starting PSYC13015.
Students are expected to have purchased and loaded a recent (e.g., 26 onwards) version of IBM SPSS (Standard or Premium edition, not Base) onto their computer BEFORE week 1. Hearne software is a reputable supplier for students. There are no exams (invigilated or 'take home') for this unit, nor any minimum marks per assessment.

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 (2 Aug 2021) 11:45 pm AEST

Return Date to Students
Vacation Week Friday (20 Aug 2021)
Within 2 teaching weeks of submission (it could be returned in vacation week)

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.

Referencing Style

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

Submission
Online

Submission Instructions
Word format preferred

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 (6 Sept 2021) 11:45 pm AEST

Return Date to Students
Week 11 Monday (27 Sept 2021)
Within 3 weeks of submission (detailed feedback provided)

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 7th Edition (APA 7th edition)](#)

Submission
Online

Submission Instructions
Word format preferred

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 (4 Oct 2021) 11:45 pm AEST

Return Date to Students
Exam Week Friday (22 Oct 2021)
Within 3 weeks of submission (detailed feedback provided)

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 7th Edition (APA 7th edition)

Submission
Online

Submission Instructions
Word format preferred

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