

Profile information current as at 29/04/2024 04:38 am

All details in this unit profile for PSYC12047 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 introduce you to preliminary concepts in statistics. The material covered in this unit will allow you to do research as part of your undergraduate and/or professional career/s. The goal of this unit is to provide you with the skills to perform basic statistical analyses (e.g., t-tests, ANOVA, chi-square, linear regression, etc.), as they apply in the health, human, and social sciences. It is a recommendation of enrolment in the unit that you have competency at secondary-level mathematics. Students lacking competency at secondary level (including basic algebra) are encouraged to contact the Academic Learning Centre (ALC) to discuss their options before enrolling in this unit.

Details

Career Level: Undergraduate Unit Level: Level 2 Credit Points: 6 Student Contribution Band: 7 Fraction of Full-Time Student Load: 0.125

Pre-requisites or Co-requisites

There are no requisites for this unit.

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 <u>Assessment Policy and</u> <u>Procedure (Higher Education Coursework)</u>.

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

<u>Metropolitan Campuses</u> Adelaide, Brisbane, Melbourne, Perth, Sydney

Assessment Overview

Online Quiz(zes)
Weighting: 40%
Portfolio
Weighting: 50%
Written Assessment
Weighting: 10%

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 <u>University's Grades and Results Policy</u> 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 <u>CQUniversity Policy site</u>.

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 Student evaluation.

Feedback

Students reported that, despite finding it interesting and useful, lecture content could be condensed and 'filler content' reduced.

Recommendation

The Unit Coordinator intends to modularise the unit into shorter conceptual videos, with 'need to know' content highlighted first, and additional modules for extended/further study also being made available. Weekly lectures might, instead, follow the 'flipped classroom' model, where content will be recapped and discussed (with a focus on applications and example calculations).

Feedback from Student evaluation and Personal communication.

Feedback

Students really liked the support of on-campus tutors and the availability of practice tasks for each assessment on the Moodle site. The majority of students reported liking the frequent (near-weekly) assessment schedule, but this was not the case for all students (especially for students who reported having competing extra-curricular commitments).

Recommendation

The current model of on-campus support, provision of comprehensive preparation materials, and assessment schedule should be continued.

Feedback from Student evaluation.

Feedback

Support for the Computer Assessment Task could be improved.

Recommendation

More examples for this assessment should be provided in the next iteration of the unit. Task expectations should be incorporated into lecture/tutorial materials earlier in the term, in order to improve communication of these.

Feedback from Student evaluation and Personal communication.

Feedback

Some students reported not needing the textbook, whereas others report highly valuing this (noting that they particularly like the simplicity of readings).

Recommendation

Level

Review alternate options for textbook, as well as the appropriateness of an annotated study guide for this unit.

Unit Learning Outcomes

Introductory

Level

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

- 1. Explain and evaluate different statistical methods and procedures
- 2. Apply statistical procedures, methods and calculations
- 3. Translate statistical output into a summary, formatted in APA style.

Intermediate

Level

Alignment of Learning Outcomes, Assessment and Graduate Attributes

Graduate

Level

Professional

Level

Advanced

Level

Alignment of Assessment Tasks to Learning Outcomes

Assessment Tasks	Learning Outcomes		
	1	2	3
1 - Online Quiz(zes) - 40%	•		•
2 - Portfolio - 50%		•	
3 - Written Assessment - 10%	•	•	•

Alignment of Graduate Attributes to Learning Outcomes

Graduate Attributes		Learning Outcomes			
		1	2	3	ł
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 Graduat	e Attributes				
Assessment Tasks	Graduate Attributes				
	123	4 5	67	89	10
1 - Online Quiz(zes) - 40%	•	•			

2 -	Portfolio	- 50%
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3 - Written Assessment - 10%

Textbooks and Resources

Textbooks

PSYC12047

Prescribed

Understanding Statistics in Psychology with SPSS

8th Edition (2020) Authors: Howitt, D., & Cramer, D. Pearson Harlow , Essex , UK ISBN: 9781292282305 Binding: Paperback PSYC12047

Supplementary

Publication Manual of the American Psychological Association

7th Edition (2020) Authors: American Psychological Association American Psychological Association Washington , DC , USA ISBN: 9781433832161 Binding: Paperback

Additional Textbook Information

Due to availability issues, students preferring a paper copy can purchase the previous 7th edition at the CQUni Bookshop here: <u>http://bookshop.cqu.edu.au</u> (search on the Unit code). Alternatively, an eBook version of the 8th edition can be purchased at the publisher's website: <u>https://www.pearson.com.au/9781292282336</u>

View textbooks at the CQUniversity Bookshop

IT Resources

You will need access to the following IT resources:

- CQUniversity Student Email
- Internet
- Unit Website (Moodle)
- GNU PSPP (free statistics analysis program)

Referencing Style

All submissions for this unit must use the referencing style: <u>American Psychological Association 7th Edition (APA 7th</u> edition)

For further information, see the Assessment Tasks.

Teaching Contacts

Lisa Lole Unit Coordinator I.lole@cqu.edu.au

Schedule

Week 1 - 13 Jul 2020

Module/Topic Introduction to Data Analysis **Events and Submissions/Topic**

Week 2 - 20 Jul 2020		
Module/Topic	Chapter	Events and Submissions/Topic
Describing our Variables	3, 4, and 5	
Week 3 - 27 Jul 2020		
Module/Topic	Chapter	Events and Submissions/Topic
Z-scores, Percentiles, & Probability	6, 10, and 19	Online Quiz Due: Week 3 Thursday (30 July 2020) 9:00 am AEST
Week 4 - 03 Aug 2020		
Module/Topic	Chapter	Events and Submissions/Topic
Data Relationships & Reporting Our Results	7 and 15	Calculation Portfolio Due: Week 4 Thursday (6 Aug 2020) 9:00 am AEST
Week 5 - 10 Aug 2020		
Module/Topic	Chapter	Events and Submissions/Topic
Hypothesis testing	12 and 20	Online Quiz (#2) DUE: Week 5 Thursday (13 Aug. 2020) 9:00 am AEST
Vacation Week - 17 Aug 2020		
Module/Topic	Chapter	Events and Submissions/Topic
-	-	-
Week 6 - 24 Aug 2020		
Module/Topic	Chapter	Events and Submissions/Topic
Correlation	8 and 11	Online Quiz (#3) DUE: Week 6 Thursday (27 Aug. 2020) 9:00 am AEST
Week 7 - 31 Aug 2020		
Module/Topic	Chapter	Events and Submissions/Topic
Simple regression & Partial correlation	9 and 32	Calculation Portfolio Task (#2) DUE: Week 7 Thursday (3 Sept. 2020) 9:00 am AEST
Week 8 - 07 Sep 2020		
Module/Topic	Chapter	Events and Submissions/Topic
Related samples <i>t</i> -test	13	Online Quiz (#4) DUE: Week 8 Thursday (10 Sept. 2020) 9:00 am AEST
Week 9 - 14 Sep 2020		
Module/Topic	Chapter	Events and Submissions/Topic
Unrelated samples <i>t</i> -test	14	Calculation Portfolio (#3) DUE: Week 9 Thursday (17 Sept. 2020) 9:00 am AEST
Week 10 - 21 Sep 2020		
Module/Topic	Chapter	Events and Submissions/Topic
<i>Chi</i> -square	18	Calculation Portfolio Task (#4) DUE: Week 10 Thursday (24 Sept. 2020) 9:00 am AEST
Week 11 - 28 Sep 2020		
Module/Topic	Chapter	Events and Submissions/Topic
Independent groups ANOVA	22, 23, and 25	Calculation Portfolio Task (#5) DUE: Week 11 Thursday (1 Oct. 2020) 9:00 am AEST

Week 12 - 05 Oct 2020		
Module/Topic	Chapter	Events and Submissions/Topic
Effect size & Confidence intervals	16 and 17	Computer Task Due: Week 12 Friday (9 Oct 2020) 11:55 pm AEST
Review/Exam Week - 12 Oct 2020		
Module/Topic	Chapter	Events and Submissions/Topic
-	-	-
Exam Week - 19 Oct 2020		
Module/Topic	Chapter	Events and Submissions/Topic
-	-	-

Assessment Tasks

1 Online Quiz

Assessment Type

Online Quiz(zes)

Task Description

You will be required to complete four Online Quizzes. These are comprised of 20 multiple-choice questions and you will have 25 minutes to answer these. You have one attempt at each quiz.

- Quiz 1 (due in Week 3) will cover material from Weeks 1 and 2
- Quiz 2 (due in Week 5) will cover material from Weeks 3 and 4
- Quiz 3 (due in Week 6) will cover material from Week 5
- Quiz 4 (due in Week 8) will cover material from Weeks 6 and 7

Number of Quizzes

4

Frequency of Quizzes

Other

Assessment Due Date

Week 3 Thursday (30 July 2020) 9:00 am AEST Quiz #2 is due 9 am (AEST) on 13/08/2020; Quiz #3 is due 9 am (AEST) on 27/08/2020; Quiz #4 is due 9 am (AEST) on 10/09/2020

Return Date to Students

Week 8 Thursday (10 Sept 2020) Grades and feedback will be made available in Moodle immediately after each quiz closes (see DUE dates above).

Weighting

40%

Assessment Criteria

Each correct answer will be awarded half (0.5) a mark.

Referencing Style

• American Psychological Association 7th Edition (APA 7th edition)

Submission

Online

Submission Instructions

These timed quizzes are to be taken via the Moodle site.

Learning Outcomes Assessed

- Explain and evaluate different statistical methods and procedures
- Translate statistical output into a summary, formatted in APA style.

Graduate Attributes

- Problem Solving
- Information Literacy

2 Calculation Portfolio

Assessment Type

Portfolio

Task Description

You will be required to complete five Calculation Portfolio tasks. You have one attempt for each Calculation Portfolio task, for which you will have 2 hours to complete it. You have one attempt at each task.

- Portfolio 1 (due Week 4) will cover material from Weeks 1, 2, and 3
- Portfolio 2 (due Week 7) will cover material from Weeks 6
- Portfolio 3 (due Week 9) will cover material from Week 8
- Portfolio 4 (due Week 10) will cover material from Week 9
- Portfolio 5 (due Week 11) will cover material from Week 10

Assessment Due Date

Week 4 Thursday (6 Aug 2020) 9:00 am AEST

Calculation task #2 is due 9 am (AEST) on 03/09/2020; Calculation task #3 is due 9 am (AEST) on 17/09/2020; Calculation task #4 is due 9 am (AEST) on 24/09/2020; Calculation task #5 is due 9 am (AEST) on 01/10/2020

Return Date to Students

Week 11 Thursday (1 Oct 2020)

Grades and feedback will be made available in Moodle immediately after each task closes (see DUE dates above).

Weighting

50%

Assessment Criteria

Each correct answer will be awarded one (1) mark.

Referencing Style

• American Psychological Association 7th Edition (APA 7th edition)

Submission

Online

Submission Instructions

These timed calculation tasks are to be taken via the Moodle site.

Learning Outcomes Assessed

• Apply statistical procedures, methods and calculations

Graduate Attributes

- Problem Solving
- Information Technology Competence

3 Computer Task

Assessment Type

Written Assessment

Task Description

You will be required to choose and run an appropriate statistical analysis using computer-based software, as well as interpret and report these results in American Psychological Association (APA) format.

Assessment Due Date

Week 12 Friday (9 Oct 2020) 11:55 pm AEST

Return Date to Students

Exam Week Friday (23 Oct 2020) Assessments with feedback will be returned approximately two weeks from the due date.

Weighting

10%

Assessment Criteria

This assessment will be graded out of 10. Marks will be allocated, according to the following criteria:

- 1. Selection of an appropriate statistical analysis for the given data (2 marks)
- 2. Justification for the choice of statistical test (2 marks)
- 3. Results reported and interpreted correctly (4 marks)
- 4. Results written according to American Psychological Association (APA) standards (2 marks)

Referencing Style

American Psychological Association 7th Edition (APA 7th edition)

Submission

Online

Submission Instructions

Students will upload a Word document with their submission to the Moodle site.

Learning Outcomes Assessed

- Explain and evaluate different statistical methods and procedures
- Apply statistical procedures, methods and calculations
- Translate statistical output into a summary, formatted in APA style.

Graduate Attributes

- Communication
- 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 <u>Academic Learning Centre (ALC)</u> can support you in becoming confident in completing assessments with integrity and of high standard.

What can you do to act with integrity?





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