

Profile information current as at 09/05/2024 08:01 pm

All details in this unit profile for PSYC14047 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

In this unit you will develop the analytical skills that are necessary for understanding and carrying out quantitative psychological research. You will examine theoretical information as well as develop in-depth practical knowledge and skills in using a computer-based statistical package through hands-on exercises.

# **Details**

Career Level: Undergraduate

Unit Level: Level 4 Credit Points: 6

Student Contribution Band: 10

Fraction of Full-Time Student Load: 0.125

# Pre-requisites or Co-requisites

Students must be enrolled in CC42 Bachelor of Psychological Science (Honours)

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 Procedure (Higher Education Coursework)</u>.

# Offerings For Term 1 - 2024

Online

# **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. Online Quiz(zes)

Weighting: 20%

2. Practical Assessment

Weighting: 60% 3. **Online Test** Weighting: 20%

# 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 feedback

#### **Feedback**

Weekly assessments help students stay on top of content.

#### Recommendation

The unit coordinator will continue with the weekly assessments.

#### Feedback from Student feedback

#### Feedback

Students appreciate the opportunity to provide feedback throughout the term, and the unit coordinator's responsiveness to feedback

#### Recommendation

The unit coordinator will continue to proactively seek feedback and respond to all feedback.

# **Unit Learning Outcomes**

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

- 1. Demonstrate an indepth knowledge of a variety of advanced statistical analytic techniques
- 2. Demonstrate the correct implementation of a variety of advanced statistical analytic techniques
- 3. Choose appropriate statistical analyses relevant to specific research designs.

Learning outcomes fulfil the level 2 pre-professional core competencies required by the updated Australian Psychology Accreditation Council (APAC) guidelines. The learning outcomes also meet the study criteria as specified by the Psychology Board of Australia (PsyBA) as appropriate for study at level 8 as stated by the Australian Qualifications Framework (AOF).

# Alignment of Learning Outcomes, Assessment and Graduate Attributes

|   |              |   |                       |   | ı                     |   |                   |   | ı                     |   | 1                 |
|---|--------------|---|-----------------------|---|-----------------------|---|-------------------|---|-----------------------|---|-------------------|
| _ | N/A<br>Level | • | Introductory<br>Level | • | Intermediate<br>Level | • | Graduate<br>Level | 0 | Professional<br>Level | 0 | Advanced<br>Level |

# Alignment of Assessment Tasks to Learning Outcomes

| Assessment Tasks               | Learning Outcomes |   |   |  |  |  |
|--------------------------------|-------------------|---|---|--|--|--|
|                                | 1                 | 2 | 3 |  |  |  |
| 1 - Online Quiz(zes) - 20%     | •                 | • |   |  |  |  |
| 2 - Practical Assessment - 60% |                   | • | • |  |  |  |
| 3 - Online Test - 20%          | •                 |   | • |  |  |  |

# Alignment of Graduate Attributes to Learning Outcomes

| Graduate Attributes                                 |                                | Learning Outcomes |    |   |   |   |   |   |   |    |
|---|--------------------------------|-------------------|----|---|---|---|---|---|---|----|
|   |                                |                   |    | 1 | _ |   | 2 |   | 3 | 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 Gradua             | ite Attril                     | oute              | es |   |   |   |   |   |   |    |
|   | ment Tasks Graduate Attributes |                   |    |   |   |   |   |   |   |    |
| Assessment Tasks                                    | Gra                            |                   |    |   |   |   |   |   |   |    |
| Assessment Tasks                                    | 1                              | 2                 | 3  | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 1 - Online Quiz(zes) - 20%                          |                                | 2                 | 3  | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|   |                                |                   |    | • | 5 |   | 7 | 8 | 9 | 10 |

# Textbooks and Resources

# **Textbooks**

PSYC14047

#### **Prescribed**

**Discovering statistics using IBM SPSS statistics** 

Edition: 5th (2018) Authors: Andy Field

Sage London , UK

ISBN: 9781526419521 Binding: Paperback

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 and either the Standard or Premium edition. This course requires the Standard feature set (the Basic version will not be enough), but some of you may need Premium features for your thesis. I suggest discussing with your thesis supervisor.

# Referencing Style

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

For further information, see the Assessment Tasks.

# **Teaching Contacts**

**Alex Russell** Unit Coordinator a.m.russell@cqu.edu.au

# Schedule

| Week 1 - 04 Mar 2024            |   |   |  |  |  |  |
|---------------------------------|---|---|--|--|--|--|
| Module/Topic                    | Chapter   | <b>Events and Submissions/Topic</b>                   |  |  |  |  |
| Elements of advanced statistics | Field, Version 4, Chapters 1 and 2<br>Field, Version 5, Chapters 1, 2 and 3 | eFil Quiz (not graded)<br>SPSS practical (not graded) |  |  |  |  |
| Week 2 - 11 Mar 2024            |   |   |  |  |  |  |
| Module/Topic                    | Chapter   | <b>Events and Submissions/Topic</b>                   |  |  |  |  |
| Model bias                      | Field, Version 4, Chapter 5 Field, Version 5, Chapter 6                     | eFil quiz<br>SPSS practical                           |  |  |  |  |
| Week 3 - 18 Mar 2024            |   |   |  |  |  |  |
| Module/Topic                    | Chapter   | <b>Events and Submissions/Topic</b>                   |  |  |  |  |
| Correlation                     | Field, Version 4, Chapter 7 Field, Version 5, Chapter 8                     | eFil quiz<br>SPSS practical                           |  |  |  |  |
| Week 4 - 25 Mar 2024            |   |   |  |  |  |  |
| Module/Topic                    | Chapter   | <b>Events and Submissions/Topic</b>                   |  |  |  |  |

| Regression                       | Field, Version 4, Chapter 8<br>Field, Version 5, Chapter 9                 | eFil quiz<br>SPSS practical                              |  |  |  |  |
|----------------------------------|--|--|--|--|--|--|
| Week 5 - 01 Apr 2024             |  |  |  |  |  |  |
| Module/Topic                     | Chapter  | Events and Submissions/Topic                             |  |  |  |  |
| Comparing means (GLM1)           | Field, Version 4, Chapters 9 and 11<br>Field, Version 5, Chapter 10 and 12 | eFil quiz<br>SPSS practical                              |  |  |  |  |
| Vacation Week - 08 Apr 2024      |  |  |  |  |  |  |
| Module/Topic                     | Chapter  | Events and Submissions/Topic                             |  |  |  |  |
| Week 6 - 15 Apr 2024             |  |  |  |  |  |  |
| Module/Topic                     | Chapter  | <b>Events and Submissions/Topic</b>                      |  |  |  |  |
| Moderation and mediation         | Field, Version 4, Chapter 10<br>Field, Version 5, Chapter 11               | eFil quiz<br>SPSS practical                              |  |  |  |  |
| Week 7 - 22 Apr 2024             |  |  |  |  |  |  |
| Module/Topic                     | Chapter  | <b>Events and Submissions/Topic</b>                      |  |  |  |  |
| Analysis of covariance (GLM2)    | Field, Version 4, Chapter 12<br>Field, Version 5, Chapter 13               | eFil quiz<br>SPSS practical                              |  |  |  |  |
| Week 8 - 29 Apr 2024             |  |  |  |  |  |  |
| Module/Topic                     | Chapter  | <b>Events and Submissions/Topic</b>                      |  |  |  |  |
| Factorial ANOVA (GLM3)           | Field, Version 4, Chapter 13<br>Field, Version 5, Chapter 14               | eFil quiz<br>SPSS practical                              |  |  |  |  |
| Week 9 - 06 May 2024             |  |  |  |  |  |  |
| Module/Topic                     | Chapter  | <b>Events and Submissions/Topic</b>                      |  |  |  |  |
| Repeated measures designs (GLM4) | Field, Version 4, Chapter 14<br>Field, Version 5, Chapter 15               | eFil quiz<br>SPSS practical                              |  |  |  |  |
| Week 10 - 13 May 2024            |  |  |  |  |  |  |
| Module/Topic                     | Chapter  | <b>Events and Submissions/Topic</b>                      |  |  |  |  |
| Mixed design ANOVA (GLM5)        | Field, Version 4, Chapter 15<br>Field, Version 5, Chapter 16               | eFil quiz<br>SPSS practical                              |  |  |  |  |
| Week 11 - 20 May 2024            |  |  |  |  |  |  |
| Module/Topic                     | Chapter  | Events and Submissions/Topic                             |  |  |  |  |
| Exploratory factor analysis      | Field, Version 4, Chapter 17<br>Field, Version 5, Chapter 18               | eFil quiz<br>SPSS practical                              |  |  |  |  |
| Week 12 - 27 May 2024            |  |  |  |  |  |  |
| Module/Topic                     | Chapter  | Events and Submissions/Topic                             |  |  |  |  |
| Logistic regression              | Field, Version 4, Chapter 19<br>Field, Version 5, Chapter 20               | eFil quiz<br>SPSS practical                              |  |  |  |  |
| Review/Exam Week - 03 Jun 2024   |  |  |  |  |  |  |
| Module/Topic                     | Chapter  | Events and Submissions/Topic Final assessment (date TBD) |  |  |  |  |
| Exam Week - 10 Jun 2024          |  |  |  |  |  |  |
| Module/Topic                     | Chapter  | Events and Submissions/Topic                             |  |  |  |  |

# Assessment Tasks

1 eFIL EXERCISES (11 assessed, but only the top 10 counted towards your

# grade)

#### **Assessment Type**

Online Quiz(zes)

#### **Task Description**

eFIL (electronic Focused Interactive Learning) is an innovative method of assessment that encourages active learning and communication among students, irrespective of location. eFIL activities are incorporated into weeks 2-12.

eFIL exercises will count for 20% of your unit grade. While you will sit 11 eFILs in weeks 2-12, only your best 10 will count (each worth 2%). There is also a practice eFIL in week 1, which does not count towards your grade, and is there to introduce you to the format.

#### What's Involved?

Each week you will complete a multiple choice quiz containing 5 'complex-reasoning' and content-knowledge questions. The quiz will be open from Thursday morning 9:00 until the following Monday night 11:59pm and questions will be based on that week's unit content. You need to attempt the quiz twice, with the highest attempt counting towards your grade. After the first attempt you will have access to an eFIL Discussion forum for that week, which allows you to discuss the quiz with a small group of other students, before taking your second attempt at the quiz. Each quiz attempt is open for 20 minutes.

# How is eFIL different from a normal quiz?

eFIL assessment provides you with the opportunity to discuss your answers with a small group of students online, just as if you were in a classroom tutorial session. Every week, after the first quiz attempt has been made, you will be able to enter a forum as part of a small group of students, where you will have the opportunity to discuss everyone's answers and the reasons for these answers. You will then take the quiz a second time; open until the deadline; with the benefits of knowing the views of other students. Your highest grade of the two will count. Please note that the eFIL forums are a privilege. You are expected to contribute to the discussion early each week with your group, so that you work out the answers as a group. IMPORTANT: It is strongly encouraged that you keep up to date with iterative assessments. In extenuating circumstances (and in accordance with assessment policy and procedure) an alternative question bank and dataset can be arranged; however please note that this is unlikely to be approved if close to the due date, so you need to plan your time accordingly.

## **Number of Quizzes**

-3

#### Frequency of Quizzes

Weekly

# **Assessment Due Date**

Each weekly eFIL activity closes at 11:59pm on the Monday of the following calendar week (e.g. Week 1 eFIL closes on the Monday of Week 2).

#### **Return Date to Students**

Marked answers with solutions are available when the quiz closes and further feedback is provided via forums and weekly consultation sessions.

## Weighting

20%

#### **Assessment Criteria**

Your 10 best eFILs from weeks 2-12 are each worth 2%. There are five (5) questions in each activity, in a multiple choice format, and each question is weighted equally.

# **Referencing Style**

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

#### **Submission**

Online

#### **Submission Instructions**

Quiz is completed via the moodle site.

#### **Learning Outcomes Assessed**

- Demonstrate an indepth knowledge of a variety of advanced statistical analytic techniques
- Demonstrate the correct implementation of a variety of advanced statistical analytic techniques

#### **Graduate Attributes**

- Problem Solving
- Critical Thinking
- Information Technology Competence

# 2 SPSS Practical Exercises (11 assessed, but only the top 10 counted towards your grade)

## **Assessment Type**

**Practical Assessment** 

#### **Task Description**

Practical proficiency in analysing data will be assessed via the completion of data analysis exercises in SPSS. Due to the unit being offered by distance, data-sets and questions will be provided for analysis via Moodle in weeks 2-12. As in the case of the eFIL exercises, your best 10 SPSS practicals count towards your final unit grade. There is a practice SPSS practical in week 1, which does not count towards your grade, and is there to introduce you to the format.

#### **Content Covered**

Each SPSS practical exercise will cover material for that teaching week: i.e. SPSS practical 1 will cover material from teaching week 1. Importantly, the SPSS practical exercises will be based heavily on the 'Smart Alex's tasks' at the end of each chapter in the text. Therefore, you should ensure that you complete and then read the feedback (available as supporting content from the publisher's website) for the relevant Smart Alex's tasks before attempting the practical exercise. For example, you should complete all the Smart Alex's tasks for chapters 1 and 2 in week 1 before attempting the quiz. You should also complete your review of the chapter content for that week before attempting the SPSS practical.

#### **Timing**

Each SPSS practical will open in the morning on the Thursday of the current teaching week, and close at 11:59pm on the following Monday. Note that the window for completing each assessment is the same as the eFIL quizzes. In contrast to eFIL, the SPSS practicals are NOT group discussion exercises and rather focus on developing your confidence to independently conduct and interpret statistical analysis. A time-limit of 2 hours is enforced for entering the answers of each SPSS practical. Therefore, you should ensure that you take steps to avoid technical issues, are fully prepared, and have sufficient time to complete the questions before beginning the assessment.

IMPORTANT: It is strongly encouraged that you keep up to date with iterative assessments. In extenuating circumstances (and in accordance with assessment policy and procedure) an alternative question bank and dataset can be arranged; however please note that this is unlikely to be approved if close to the due date, so you need to plan your time accordingly.

#### **Assessment Due Date**

Each weekly SPSS practical assessment closes at 11:59pm on the Monday of the following calendar week (e.g. Week 1 assessment closes on the Monday of Week 2).

#### **Return Date to Students**

A general feedback sheet is available to students once all students have completed the assessment, allowing for any extensions. Further feedback can be obtained via Moodle forums and weekly Zoom meetings.

#### Weighting

60%

#### **Assessment Criteria**

Your 10 best SPSS practical assessments from weeks 2-12 are each worth 6%.

#### **Referencing Style**

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

#### **Submission**

Online

#### **Learning Outcomes Assessed**

- Demonstrate the correct implementation of a variety of advanced statistical analytic techniques
- Choose appropriate statistical analyses relevant to specific research designs.

#### **Graduate Attributes**

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

#### 3 Online Test

#### **Assessment Type**

Online Test

#### **Task Description**

The final assessment for the course is an online assessment, which will be held during examination week. The final assessment is worth 20% and is an online quiz, where you will be given a scenario, and will then answer 2-3 short questions on each one. A practice example of the online test will be available on Moodle throughout the term, so you can see its format. Answers will generally be short answers, in some cases a single word or number will be required, while in other cases, you may be required to write a sentence or two. The final assessment is open-book, and three hours are allowed for completion. You will not be allowed to consult with other students during the examination period.

#### **Assessment Due Date**

#### **Return Date to Students**

Due to the nature of the online test, no feedback is available. However, students may consult with the unit coordinator if required.

#### Weighting

20%

#### **Assessment Criteria**

This assessment covers the entire content of the unit, and is worth 20% of your final mark. While you will get feedback on your eFIL and SPSS prac assessments, for this final assessment, you will not get feedback apart from your mark. The assessment is marked manually by the unit coordinator, so marks will not be immediately available when the assessment is completed.

## **Referencing Style**

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

#### **Submission**

Online

## **Learning Outcomes Assessed**

- Demonstrate an indepth knowledge of a variety of advanced statistical analytic techniques
- Choose appropriate statistical analyses relevant to specific research designs.

#### **Graduate Attributes**

- Communication
- Problem Solving
- Critical Thinking

# **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?



#### **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