

#### Profile information current as at 02/05/2024 05:56 pm

All details in this unit profile for ACCT20081 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

As the economy moves towards more digital disruption, management and auditors are seeking innovative technologies for generating timely information for decision making. The unit is designed to provide you with an understanding of how financial data of an organisation can be analysed in a timely manner using data analytics. You are introduced to concepts, tools, software and methodologies of business intelligence and how they are applied to the analysis of financial data. You will gain experience in analysing accounting audit trails, using audit software, detecting potential fraud, visualising data, and generating dashboards for performance reporting. This unit is suitable for students with minimal information systems background.

### Details

Career Level: Postgraduate Unit Level: Level 9 Credit Points: 6 Student Contribution Band: 10 Fraction of Full-Time Student Load: 0.125

## Pre-requisites or Co-requisites

Pre-requisite ACCT20072 Accounting Systems & Information Assurance

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 - 2023

- Brisbane
- Melbourne
- Online
- Sydney

### 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 Postgraduate 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

 Practical Assessment Weighting: 20%
Project (applied) Weighting: 30%
Take Home Exam Weighting: 50%

### 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 <u>CQUniversity Policy site</u>.

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 Informal student feedback

### Feedback

Students find the support materials quite extensive and valuable preparation for workshops, assessments and future career opportunities.

### Recommendation

Continue to improve support materials and assessment, particularly the focus on auditing applications.

## **Unit Learning Outcomes**

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

- 1. Describe and distinguish data concepts, decision support systems, data warehouses, and data analytics, and perform querying of data
- 2. Apply data analytics and data visualisation software to provide information for management and auditors
- 3. Analyse data structures and extract accounting audit trails from computerised accounting systems
- 4. Design audit procedures and apply audit software in substantive testing and fraud detection
- 5. Apply performance management principles and develop performance dashboards and other visual presentations for management.

# Alignment of Learning Outcomes, Assessment and Graduate Attributes

N/A Level

Introductory Intermediate Level

Graduate Graduate

Professional Level Advanced

Alignment of Assessment Tasks to Learning Outcomes

Assessment Tasks	Learni	Learning Outcomes			
	1	2	3	4	5
1 - Practical Assessment - 20%	•	•			
2 - Project (applied) - 30%		•	•	•	•
3 - Take Home Exam - 50%	•		•	•	•

# Alignment of Graduate Attributes to Learning Outcomes

Graduate Attributes	Learning Outcomes				
	1	2	3	4	5
1 - Knowledge	o	o	o	o	o
2 - Communication		o			o
3 - Cognitive, technical and creative skills	o	o	o		o
4 - Research				o	
5 - Self-management			o		o
6 - Ethical and Professional Responsibility			o		
7 - Leadership					
8 - Aboriginal and Torres Strait Islander Cultures					

## Textbooks and Resources

### Textbooks

### There are no required textbooks.

### **IT Resources**

### You will need access to the following IT resources:

- CQUniversity Student Email
- Internet
- Unit Website (Moodle)
- Microsoft Excel
- SAS On Demand
- Tableau

# **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**

# Peter Best Unit Coordinator p.best@cqu.edu.au

## Schedule

Week 1 - 10 Jul 2023		
Module/Topic	Chapter	<b>Events and Submissions/Topic</b>
Introduction Business case for data analytics SAS Studio Demonstration	Lecture notes and materials are available in Moodle	SAS Computer Workshop 1
Week 2 - 17 Jul 2023		
Module/Topic	Chapter	<b>Events and Submissions/Topic</b>
Data concepts, data quality, data warehouses Introduction to SAS Programming	Lecture notes and materials are available in Moodle	SAS Computer Workshop 2
Week 3 - 24 Jul 2023		
Module/Topic	Chapter	Events and Submissions/Topic
Big Data SAS Programming 1	Lecture notes and materials are available in Moodle	SAS Computer Workshop 3
Week 4 - 31 Jul 2023		
Module/Topic	Chapter	<b>Events and Submissions/Topic</b>
Structured Query Language (SQL) Data matching SAS Programming 2	Lecture notes and materials are available in Moodle	SAS Computer Workshop 4
Week 5 - 07 Aug 2023		
Module/Topic	Chapter	<b>Events and Submissions/Topic</b>

Audit Trails Data extraction and preparation SAS Programming 3	Lecture notes and materials are available in Moodle	SAS Computer Workshop 5
Vacation Week - 14 Aug 2023		
Module/Topic	Chapter	<b>Events and Submissions/Topic</b>
No classes this week.		
Week 6 - 21 Aug 2023		
Module/Topic	Chapter	<b>Events and Submissions/Topic</b>
Developing audit procedures Applying audit software in substantive testing	Lecture notes and materials are available in Moodle	MS Excel Computer Workshop 1
Week 7 - 28 Aug 2023		
Module/Topic	Chapter	Events and Submissions/Topic MS Excel Computer Workshop 2
Fraud Detection Benford's Law	Lecture notes and materials are available in Moodle	Practical Assessment Due: Week 7 Friday (1 Sept 2023) 5:00 am AEST
Week 8 - 04 Sep 2023		
Module/Topic	Chapter	<b>Events and Submissions/Topic</b>
Future of Audit Continuous auditing and controls monitoring Introduction to Tableau	Lecture notes and materials are available in Moodle	Tableau Computer Workshop 1
Week 9 - 11 Sep 2023		
Module/Topic	Chapter	<b>Events and Submissions/Topic</b>
Data Visualization Data analysis in Tableau	Lecture notes and materials are available in Moodle	Tableau Computer Workshop 2
Week 10 - 18 Sep 2023		
Module/Topic	Chapter	<b>Events and Submissions/Topic</b>
Dashboards and performance reporting Charts and Dashboards in Tableau	Lecture notes and materials are available in Moodle	Tableau Computer Workshop 3
Week 11 - 25 Sep 2023		
Module/Topic	Chapter	<b>Events and Submissions/Topic</b>
		Tableau Computer Workshop 4
Mapping Data Maps in Tableau	Lecture notes and materials are available in Moodle	<b>Project</b> Due: Week 11 Friday (29 Sept 2023) 5:00 pm AEST
Week 12 - 02 Oct 2023		
Module/Topic	Chapter	<b>Events and Submissions/Topic</b>
Unit review	Lecture notes and materials are available in Moodle	No Computer Workshop this week
Review/Exam Week - 09 Oct 2023		
Module/Topic	Chapter	Events and Submissions/Topic
Exam Week - 16 Oct 2023		
Module/Topic	Chapter	Events and Submissions/Topic

## Assessment Tasks

### 1 Practical Assessment

### Assessment Type

### Practical Assessment

#### **Task Description**

Students perform a series of data analytics tasks to demonstrate their knowledge, understanding and skills in using the SAS software platform.

#### Assessment Due Date

Week 7 Friday (1 Sept 2023) 5:00 am AEST

### **Return Date to Students**

Week 9 Friday (15 Sept 2023)

### Weighting

20%

### Assessment Criteria

This assessment item evaluates the student's ability to use SAS software to perform basic tasks covered in weeks 1 to 5.

### **Referencing Style**

<u>American Psychological Association 7th Edition (APA 7th edition)</u>

#### Submission

Online

### **Submission Instructions**

Submit SAS programs and associated output files, online via Moodle. Emailed submissions will not be accepted.

#### Learning Outcomes Assessed

- Describe and distinguish data concepts, decision support systems, data warehouses, and data analytics, and perform querying of data
- Apply data analytics and data visualisation software to provide information for management and auditors

### 2 Project

### Assessment Type

Project (applied)

### **Task Description**

Students select and perform appropriate data analytics procedures using a combination of software tools and provided data. They apply principles learnt in the unit to analyse data and develop visual presentations to produce relevant reports. They report their findings in a professionally-documented report to management.

### Assessment Due Date

Week 11 Friday (29 Sept 2023) 5:00 pm AEST

### Return Date to Students

Review/Exam Week Friday (13 Oct 2023)

### Weighting

30%

#### **Assessment Criteria**

This assessment will assess the student's ability to: identify analytics problems, select suitable procedures and software tools, solve problems and report findings that are supported by appropriate visualisations.

### **Referencing Style**

<u>American Psychological Association 7th Edition (APA 7th edition)</u>

### Submission

Online

### Submission Instructions

Submit Tableau files and final report, online via Moodle. Emailed submissions will not be accepted.

#### Learning Outcomes Assessed

- Apply data analytics and data visualisation software to provide information for management and auditors
- Analyse data structures and extract accounting audit trails from computerised accounting systems
- Design audit procedures and apply audit software in substantive testing and fraud detection
- Apply performance management principles and develop performance dashboards and other visual presentations for management.

### 3 Take Home Exam

### **Assessment Type**

Take Home Exam

#### **Task Description**

This is a written assessment consisting of theory and programming questions covering content from weeks 1 to 12.

#### **Assessment Due Date**

Scheduled during Final Exam Week. Refer to exam timetable which will be made available in Moodle

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

### Weighting

50%

### **Assessment Criteria**

All content covered in weeks 1 to 12 are examined.

#### **Referencing Style**

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

### Submission

Online

#### **Submission Instructions**

Submit answer file online via Moodle. Emailed submissions will not be accepted.

#### Learning Outcomes Assessed

- Describe and distinguish data concepts, decision support systems, data warehouses, and data analytics, and perform querying of data
- Analyse data structures and extract accounting audit trails from computerised accounting systems
- Design audit procedures and apply audit software in substantive testing and fraud detection
- Apply performance management principles and develop performance dashboards and other visual presentations for management.

## 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