

Profile information current as at 12/05/2024 05:12 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-requisiteACCT20072 Accounting Systems & Information AssuranceCo-requisiteACCT20075 Auditing & Ethics 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 1 - 2019

- 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).

Residential Schools

This unit has a Optional Residential School for distance mode students and the details are: Click here to see your <u>Residential School Timetable</u>.

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%
Examination 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 comments

Feedback

Students appreciated the applied nature of the unit, providing exposure to a range of real-world data visualization, and data mining software, and their application in accounting, fraud detection and auditing.

Recommendation

These strengths of the unit were strongly appreciated by students and will be continued.

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



Alignment of Assessment Tasks to Learning Outcomes

Assessment Tasks	Learn	Learning Outcomes			
	1	2	3	4	5
1 - Practical Assessment - 20%	•	٠			
2 - Project (applied) - 30%		٠	•	•	•
3 - Examination - 50%	•		•	•	•

Alignment of Graduate Attributes to Learning Outcomes

Graduate Attributes	Learning Outcomes				
	1	2	3	4	5
1 - Knowledge	o	o	o	o	0
2 - Communication		o			٥

Graduate Attributes	Learning Outcomes				
	1	2	3	4	5
3 - Cognitive, technical and creative skills	o	o	o		o
4 - Research				o	
5 - Self-management			o		o
6 - Ethical and Professional Responsibility				0	
7 - Leadership					o
8 - 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
1 - Practical Assessment - 20%	o	o	o	o	o			
2 - Project (applied) - 30%	o	o	0	o	o	o		
3 - Examination - 50%	0		0		o	o		

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 6th Edition (APA 6th</u> edition)

For further information, see the Assessment Tasks.

Teaching Contacts

Kishore Singh Unit Coordinator k.h.singh@cqu.edu.au

Schedule

Week 1 - 11 Mar 2019		
Module/Topic	Chapter	Events and Submissions/Topic
Introduction Business case for data analytics SAS Studio Demonstration	Lecture notes and materials are available on Moodle	SAS Computer Workshop 1
Week 2 - 18 Mar 2019		
Module/Topic	Chapter	Events and Submissions/Topic
Data concepts, data quality, data warehouses Introduction to SAS Programming	Lecture notes and materials are available on Moodle	SAS Computer Workshop 2
Week 3 - 25 Mar 2019		
Module/Topic	Chapter	Events and Submissions/Topic
Big Data SAS Programming 1	Lecture notes and materials are available on Moodle	SAS Computer Workshop 3
Week 4 - 01 Apr 2019		
Module/Topic	Chapter	Events and Submissions/Topic
Structured Query Language (SQL) Data matching SAS Programming 2	Lecture notes and materials are available on Moodle	SAS Computer Workshop 4
Week 5 - 08 Apr 2019		
Module/Topic	Chapter	Events and Submissions/Topic
Audit Trails Data extraction and preparation SAS Programming 3	Lecture notes and materials are available on Moodle	SAS Computer Workshop 5
Vacation Week - 15 Apr 2019		
Module/Topic	Chapter	Events and Submissions/Topic
No classes		
Week 6 - 22 Apr 2019		
Module/Topic	Chapter	Events and Submissions/Topic
Developing audit procedures Applying audit software in substantive testing	Lecture notes and materials are available on Moodle	Excel Computer Workshop 1
Week 7 - 29 Apr 2019		
Module/Topic	Chapter	Events and Submissions/Topic
Fraud Detection	Lecture notes and materials are	Excel Computer Workshop 2 Practical Assessment due Friday, 03/05/2019, 5:00 pm AEST. Submit online via Moodle.
Benford's Law	available on Moodle	Practical Assessment (20%) Due: Week 7 Friday (3 May 2019) 5:00 pm AEST
Week 8 - 06 May 2019		
Module/Topic	Chapter	Events and Submissions/Topic

Future of Audit Continuous auditing and controls monitoring Introduction to Tableau	Lecture notes and materials are available on Moodle	Tableau Computer Workshop 1
Week 9 - 13 May 2019		
Module/Topic	Chapter	Events and Submissions/Topic
Data Visualization Data analysis in Tableau	Lecture notes and materials are available on Moodle	Tableau Computer Workshop 2
Week 10 - 20 May 2019		
Module/Topic	Chapter	Events and Submissions/Topic
Dashboards and performance reporting Charts and Dashboards in Tableau	Lecture notes and materials are available on Moodle	Tableau Computer Workshop 3
Week 11 - 27 May 2019		
Module/Topic	Chapter	Events and Submissions/Topic
Mapping Data Maps in Tableau	Lecture notes and materials are available on Moodle	Tableau Computer Workshop 4 Project due Friday, 31/05/2019, 5:00 pm AEST. Submit online via Moodle. Project (30%) Due: Week 11 Friday (31 May 2019) 5:00 pm AEST
Week 12 - 03 Jun 2019		
Module/Topic	Chapter	Events and Submissions/Topic
Unit review	chapter	No Computer Workshop this week
Review/Exam Week - 10 Jun 2019	Chanter	French and Coloringians (Tania
Module/Topic	Chapter	Events and Submissions/Topic
Exam Week - 17 Jun 2019		
Module/Topic	Chapter	Events and Submissions/Topic

Assessment Tasks

1 Practical Assessment (20%)

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 (3 May 2019) 5:00 pm AEST

Return Date to Students

Week 9 Friday (17 May 2019)

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

• American Psychological Association 6th Edition (APA 6th edition)

Submission

Online

Submission Instructions

Submit SAS programs and associated output files, online via Moodle.

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

Graduate Attributes

- Knowledge
- Communication
- Cognitive, technical and creative skills
- Research
- Self-management

2 Project (30%)

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 (31 May 2019) 5:00 pm AEST

Return Date to Students

Review/Exam Week Friday (14 June 2019)

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 6th Edition (APA 6th edition)</u>

Submission

Online

Submission Instructions

Submit Tableau files and final report, online via Moodle.

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.

Graduate Attributes

- Knowledge
- Communication
- Cognitive, technical and creative skills
- Research
- Self-management
- Ethical and Professional Responsibility

Examination

Outline

Complete an invigilated examination.

Date

During the examination period at a CQUniversity examination centre.

Weighting 50%

Length 120 minutes

Exam Conditions Closed Book.

Materials

Dictionary - non-electronic, concise, direct translation only (dictionary must not contain any notes or comments).

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