

Profile information current as at 16/05/2024 06:21 pm

All details in this unit profile for ACCT28001 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 introduces you to the world of data analytics in business. Business analytics uses software tools to produce strategic analyses of huge volumes of data stored in databases and data warehouses to support improved decision making. Business analytics is used in industry and government for basic reporting and descriptive analyses. Advanced predictive and prescriptive analytics also allow powerful insights to be generated. Some areas of application include improved understanding of customer behaviour, gauging sentiment on social media, analysis and prediction of factors influencing profitability and portfolio optimisation. This unit will provide you with foundation knowledge to contribute to the use of data analytics in business.

## **Details**

Career Level: Postgraduate

Unit Level: Level 8 Credit Points: 6

Student Contribution Band: 10

Fraction of Full-Time Student Load: 0.125

# Pre-requisites or Co-requisites

Prerequisite: STAT20029 Statistics for Managerial Decisions

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 - 2020

- 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

#### **Metropolitan Campuses**

Adelaide, Brisbane, Melbourne, Perth, Sydney

## **Assessment Overview**

Online Quiz(zes)
 Weighting: 25%
 Project (applied)
 Weighting: 35%
 Project (applied)
 Weighting: 40%

# 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 CQUniversity Policy site.

# **Unit Learning Outcomes**

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

- 1. Identify the role of business analytics techniques in improving decision making for a data-driven organisation
- 2. Analyse how specific business analytics techniques influence critical success factors
- 3. Apply descriptive business analytics techniques to assist managers to solve business problems
- 4. Apply predictive and prescriptive business analytics techniques to assist managers to solve business problems.

N/A Introductory Intermediate Graduat Level Level	e Professional Level	Advar Level	nced					
Alignment of Assessment Tasks to Lea								
Assessment Tasks		Learning Outcomes						
		1	2	2	3	3	4	
1 - Online Quiz(zes) - 25%		•	•	•				
2 - Project (applied) - 35%		•				•	•	
3 - Project (applied) - 40%			•			•	•	
Alignment of Craduate Attributes to L	oorning Outcom	mac						
Alignment of Graduate Attributes to Learning Outcomes  Graduate Attributes  Learning Outcomes								
			1	2		3	4	
1 - Knowledge				0		0	0	
2 - Communication							0	
3 - Cognitive, technical and creative skills							0	
4 - Research								
5 - Self-management						0	0	
6 - Ethical and Professional Responsibility								
7 - Leadership								
8 - Aboriginal and Torres Strait Islander Cultures								
Alignment of Assessment Tasks to Gra	aduate Attribut	·es						
Assessment Tasks		Graduate Attributes						
	1	2	3	4	5	6	7 8	
1 - Online Quiz(zes) - 25%	o					o		
2 - Project (applied) - 35%	0	0	0		0		ļ	
3 - Project (applied) - 40%	•	0						

Alignment of Learning Outcomes, Assessment and Graduate Attributes

# Textbooks and Resources

## **Textbooks**

ACCT28001

#### **Prescribed**

## **Business Analytics**

Edition: 3 (2019)

Authors: Camm, Cochran, Fry, Ohlmann, Anderson, Sweeney, Williams

Cengage Learning Boston , MA , United States ISBN: 9781337406420 Binding: eBook

#### **Additional Textbook Information**

The eBook is available at the Cengage website here:

https://cengage.com.au/product/title/business-analytics/isbn/9781337406420

However, paper copies can still be purchased from the CQUni Bookshop here: http://bookshop.cqu.edu.au

# **IT Resources**

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

- CQUniversity Student Email
- Internet
- Unit Website (Moodle)
- MS Excel Solver Add-in (MS office)
- MS Excel
- MS Access 2007 or 2010 or later

# Referencing Style

All submissions for this unit must use the referencing style: <u>American Psychological Association 6th Edition (APA 6th edition)</u>

For further information, see the Assessment Tasks.

# **Teaching Contacts**

Peter Best Unit Coordinator

p.best@cqu.edu.au

# Schedule

# Week 1 - 09 Mar 2020

Module/Topic Chapter Events and Submissions/Topic

Introduction to unit

Introduction to business analytics

Analytics in banking Cam 3e 1, App A
Analytics in other areas

Week 2 - 16 Mar 2020

Competing with analytics

Module/Topic Chapter Events and Submissions/Topic

Data concepts, warehouses, database systems and big data, relationships, queries	Cam 3e App B, B.1-2		
Week 3 - 23 Mar 2020			
Module/Topic	Chapter	Events and Submissions/Topic	
Exporting data, importing data, dimensional modelling	Cam 3e App B, B.3-5	Quiz 1 opens on Friday 27 March, 9:00 AEST.	
Week 4 - 30 Mar 2020			
Module/Topic	Chapter	<b>Events and Submissions/Topic</b>	
Descriptive statistics	Cam 3e 2	Quiz 1 closes on Friday 3 April 9:00 AEST.	
Week 5 - 06 Apr 2020			
Module/Topic	Chapter	<b>Events and Submissions/Topic</b>	
Data visualization	Cam 3e 3	Quiz 2 opens on Friday 10 April 9:00 AEST.	
Vacation Week - 13 Apr 2020			
Module/Topic	Chapter	<b>Events and Submissions/Topic</b>	
Self-study			
Week 6 - 20 Apr 2020			
Module/Topic	Chapter	<b>Events and Submissions/Topic</b>	
Descriptive data mining Missing data Cluster	Cam 3e 4	Quiz 2 closes on Friday 24 April 9:00 AEST.	
Association/sequence			
Week 7 - 27 Apr 2020			
Module/Topic	Chapter	Events and Submissions/Topic	
Regression	Cam 3e 7	Quiz 3 opens on Friday 1 May 9:00 AEST.	
Week 8 - 04 May 2020			
Module/Topic	Chapter	Events and Submissions/Topic	
		Quiz 3 closes on Friday 8 May 9:00 AEST.	
Time series analysis and Forecasting	Cam 3e 8	Project 1 - Descriptive Techniques Due: Week 8 Friday (8 May 2020) 5:00 pm AEST	
Week 9 - 11 May 2020			
Module/Topic	Chapter	Events and Submissions/Topic	
Simulation	Cam 3e 11	Quiz 4 opens on Friday 15 May 9:00 AEST.	
Week 10 - 18 May 2020			
Module/Topic	Chapter	Events and Submissions/Topic	
Linear optimization	Cam 3e 12	Quiz 4 closes on Friday 22 May 9:00 AEST.	
Week 11 - 25 May 2020			
Module/Topic	Chapter	<b>Events and Submissions/Topic</b>	
Data analytics, maturity, institutionalization, agility, performance	Readings	Quiz 5 opens on Friday 29 May 9:00 AEST.	
Week 12 - 01 Jun 2020			

Module/Topic	Chapter	<b>Events and Submissions/Topic</b> Quiz 5 closes on 5 June 9:00 AEST.
Unit Review		Project 2 - Predictive and Prescriptive Techiques Due: Week 12 Friday (5 June 2020) 5:00 pm AEST
Review/Exam Week - 08 Jun 20	020	
Module/Topic Self-study	Chapter	Events and Submissions/Topic
Exam Week - 15 Jun 2020		
Module/Topic	Chapter	Events and Submissions/Topic
Module/Topic	Chapter	Events and Submissions, ropic

# **Assessment Tasks**

# 1 Fortnightly Quizzes

## **Assessment Type**

Online Quiz(zes)

#### **Task Description**

Five (5) fortnightly online quizzes are required to be completed. Each quiz is to be completed individually, is open for approximately 7 days, and covers the preceding 2 weeks of classes. The first quiz opens in Week 3. Each quiz consists of a set of multiple-choice questions and is marked out of 15. The weighting for quiz results is 25% of the total marks.

#### **Number of Quizzes**

5

## **Frequency of Quizzes**

Fortnightly

#### **Assessment Due Date**

Fortnightly quizzes will open on Friday at 9:00 AEST and will close on the following Friday at 9:00 AEST. Quiz 1 opens on Friday in Week 2 and closes on Friday in Week 3. Quiz 2 opens on Friday in Week 4 and closes on Friday in Week 5. And, so on.

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

Your results of the quiz will be automatically generated and will be displayed upon completion of the quiz. You can access your results again on the unit website via the Gradebook. You will be able to check your quiz for incorrect answers after the quiz has closed.

# Weighting

25%

#### **Assessment Criteria**

Assessing students' ability to distinguish the primary categories of business analytics techniques, and identify their role in improving decision making and critical success factors for a data-driven organisation.

#### **Referencing Style**

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

### **Submission**

Online

#### **Submission Instructions**

Each quiz is to be completed online within Moodle.

## **Learning Outcomes Assessed**

- Identify the role of business analytics techniques in improving decision making for a data-driven organisation
- Analyse how specific business analytics techniques influence critical success factors

#### **Graduate Attributes**

- Knowledge
- Ethical and Professional Responsibility

# 2 Project 1 - Descriptive Techniques

### **Assessment Type**

Project (applied)

#### **Task Description**

This project assesses students' ability to apply descriptive business analytics techniques to assist managers to solve business problems. Several case studies will be examined, where students will use software to analyse data and provide a report to management on findings.

#### **Assessment Due Date**

Week 8 Friday (8 May 2020) 5:00 pm AEST Submit Project 1 through Moodle.

## **Return Date to Students**

Marks and feedback will be available within 2 weeks of the due date.

#### Weighting

35%

#### **Assessment Criteria**

The project will examine students' ability in identifying relevant techniques and demonstrating knowledge, applying relevant techniques and knowledge to solve problems, and quality of writing, grammar, syntax and spelling.

#### **Referencing Style**

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

#### **Submission**

Online

## **Submission Instructions**

Project 1 is to be submitted through Moodle.

#### **Learning Outcomes Assessed**

- Identify the role of business analytics techniques in improving decision making for a data-driven organisation
- Apply descriptive business analytics techniques to assist managers to solve business problems
- Apply predictive and prescriptive business analytics techniques to assist managers to solve business problems.

#### **Graduate Attributes**

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

# 3 Project 2 - Predictive and Prescriptive Techiques

# **Assessment Type**

Project (applied)

## **Task Description**

This project assesses students' ability to apply predictive and prescriptive business analytics techniques to assist managers to solve business problems. Several case studies will be examined, where students will use software to analyse data and provide a report to management on findings.

### **Assessment Due Date**

Week 12 Friday (5 June 2020) 5:00 pm AEST Submit Project 2 through Moodle.

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

Marks and feedback will be available within 2 weeks of the due date.

## Weighting

40%

#### **Assessment Criteria**

The project will examine students' ability in identifying relevant techniques and demonstrating knowledge, applying relevant techniques and knowledge to solve problems, and quality of writing, grammar, syntax and spelling.

## **Referencing Style**

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

#### **Submission**

Online

## **Submission Instructions**

Submit Project 2 through Moodle.

## **Learning Outcomes Assessed**

- Analyse how specific business analytics techniques influence critical success factors
- Apply descriptive business analytics techniques to assist managers to solve business problems
- Apply predictive and prescriptive business analytics techniques to assist managers to solve business problems.

## **Graduate Attributes**

- Knowledge
- Communication
- Cognitive, technical and creative skills
- Self-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?



#### **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