



COIT20253 *Business Intelligence using Big Data*

Term 2 - 2024

Profile information current as at 29/07/2024 03:43 pm

All details in this unit profile for COIT20253 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

Big data is a popular term used to describe the exponential growth and availability of structured and unstructured data. In this unit, you will explore big data within the context of business intelligence. In this unit, you will learn concepts of business intelligence, alignment of big data to business intelligence and how big data technologies can be used in building organisational business intelligence. You will learn how big data is changing businesses and how organisations can take advantage of big data in decision making. You will learn how organisations are integrating non-traditional unstructured data with the traditional structured enterprise data to do the business intelligence analysis. In order to understand these, you will learn big data analytical tools and technologies to help solve authentic business problems and make effective business decisions.

Details

Career Level: *Postgraduate*

Unit Level: *Level 9*

Credit Points: 6

Student Contribution Band: 8

Fraction of Full-Time Student Load: 0.125

Pre-requisites or Co-requisites

Prerequisites: COIT20250 e-Business Systems, COIT20245 Introduction to Programming and COIT20247 Database Design and Development. Anti-Requisites: If you have completed unit COIT20236 then you cannot take 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 [Assessment Policy and Procedure \(Higher Education Coursework\)](#).

Offerings For Term 2 - 2024

- Brisbane
- Melbourne
- Online
- Rockhampton
- 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

1. **Written Assessment**

Weighting: 35%

2. **Presentation**

Weighting: 25%

3. **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 [University's Grades and Results Policy](#) 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](#).

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 Unit Teaching Evaluation

Feedback

Link content to real world applications.

Recommendation

Invite guest speakers and industry experts to share their experiences and insights into how big data and business intelligence are applied in their respective fields.

Feedback from Student Unit Teaching Evaluation

Feedback

Use more examples or elaboration.

Recommendation

Include more practical cases of how big data and business intelligence are used in various industries (e.g. healthcare, finance, retail, manufacturing) in the learning resources.

Unit Learning Outcomes

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

1. Apply concepts and principles of big data to evaluate and explain how large volume of structured and unstructured data are managed in an organisation
2. Analyse critically and reflect on how organisations are including non-traditional valuable data with the traditional enterprise data to do the business intelligence analysis
3. Critically analyse and evaluate different big data technologies used for decision making in an organisation
4. Develop big data strategy for data-centric organisations to meet client requirements
5. Apply big data architecture, tools, and technologies for decision making and problem solving in the organisational context.

Australian Computer Society (ACS) recognises the Skills Framework for the Information Age (SFIA). SFIA is in use in over 100 countries and provides a widely used and consistent definition of ICT skills. SFIA is increasingly being used when developing job descriptions and role profiles.

ACS members can use the tool MySFIA to build a skills profile at

<https://www.acs.org.au/professionalrecognition/mysfia-b2c.html>

This unit contributes to the following workplace skills as defined by SFIA. The SFIA code is included:

- Research(RSCH)
- Data Management (DATM)
- Emerging Technology Monitoring (EMRG)
- Data Analysis (DTAN)
- Application Support (ASUP)
- Analytics (INAN)

Alignment of Learning Outcomes, Assessment and Graduate Attributes



Alignment of Assessment Tasks to Learning Outcomes

Textbooks and Resources

Textbooks

COIT20253

Prescribed

Big Data: Understanding How Data Powers Big Business (2013)

Edition: latest (2013)

Authors: Schmarzo, Bill

Wiley

Indianapolis , Indiana , USA

ISBN: 978-1-118-73957-0

Binding: Paperback

COIT20253

Prescribed

Business Intelligence and Analytics: Systems for Decision Support 10th Global (2015)

Edition: 10th (2015)

Authors: Turban , Sharda & Delen

Pearson

Upper Saddle River , NJ , USA

ISBN: 9781292009209

Binding: Paperback

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Supplementary

Next Generation Databases: NoSQL, NewSQL, and Big Data (2015)

Authors: Harrison, Guy

Apress Media

New York City , New York , USA

ISBN: 978-1-4842-1330-8

Binding: Paperback

COIT20253

Supplementary

Scalable Big Data Architecture: A practitioner's guide to choosing relevant big data architecture (2016)

Authors: Azarmi, Bahaaldine

Apress Media

New York City, , New York, , USA

ISBN: 978-1-4842-1327-8

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)
- Tableau

Referencing Style

All submissions for this unit must use the referencing style: [Harvard \(author-date\)](#)

For further information, see the Assessment Tasks.

Teaching Contacts

Meena Jha Unit Coordinator
m.jha@cqu.edu.au

Schedule

Week 1 - 08 Jul 2024

Module/Topic	Chapter	Events and Submissions/Topic
1. Introduction to Big Data	1. Online Resources	
2. An Overview of Business Intelligence, Analytics, and Decision Support	2. Chapter 1 from Business Intelligence and Analytics: Systems for Decision Support. Authors: R Sharda, D Delen, E Turban	

Week 2 - 15 Jul 2024

Module/Topic	Chapter	Events and Submissions/Topic
1. Big Data Business Opportunities	1. Chapter 1 from Big Data: Understanding How Data Powers Big Business. Author: B. Schmarzo	
2. Foundation and Technologies for Decision Making	2. Chapter 2 from Business Intelligence and Analytics: Systems for Decision Support. Authors: R Sharda, D Delen, E Turban	

Week 3 - 22 Jul 2024

Module/Topic	Chapter	Events and Submissions/Topic
1. Big Data Technologies: Overview of Hadoop; MapReduce; scripting language	1. Chapter 2 from Next Generation Databases: NoSQL, NewSQL, and Big Data. Author: G. Harrison	
2. Information Management and Business Reporting, Visual Analytics	2. Chapter 4 from Business Intelligence and Analytics: Systems for Decision Support. Authors: R Sharda, D Delen, E Turban	

Week 4 - 29 Jul 2024

Module/Topic	Chapter	Events and Submissions/Topic
1. Next Generation Databases	1. Chapter 4, 5 & 6 from Next Generation Databases: NoSQL, NewSQL, and Big Data. Author: G. Harrison	
2. Predictive Modeling: classification versus regression; evaluating predictive models and cross validation; algorithms for predictive modelling	2. Chapter 6 from Business Intelligence and Analytics: Systems for Decision Support. Authors: R Sharda, D Delen, E Turban	

Week 5 - 05 Aug 2024

Module/Topic	Chapter	Events and Submissions/Topic
1. Understanding Value Creation Process	1. Chapter 7 from Big Data: Understanding How Data Powers Big Business. Author: B. Schmarzo	
2. Business Analytics, Text Analytics, Text Mining, and Sentiment Analysis	2. Chapter 7 from Business Intelligence and Analytics: Systems for Decision Support. Authors: R Sharda, D Delen, E Turban	

Vacation Week - 12 Aug 2024

Module/Topic	Chapter	Events and Submissions/Topic
Enjoy the break.		

Week 6 - 19 Aug 2024

Module/Topic	Chapter	Events and Submissions/Topic
Web Analytics, Web Mining, and Social Analytics	Chapter 8 from Business Intelligence and Analytics: Systems for Decision Support. Authors: R Sharda, D Delen, E Turban	Assessment 1: Exploring Big Data Opportunities for Value Creation Due: Week 6 Friday (23 Aug 2024) 11:45 pm AEST

Week 7 - 26 Aug 2024

Module/Topic	Chapter	Events and Submissions/Topic
Creating the Big Data Strategy	Chapter 6 from Big Data: Understanding How Data Powers Big Business. Author: B. Schmarzo	

Week 8 - 02 Sep 2024

Module/Topic	Chapter	Events and Submissions/Topic
Big Data User Experience Ramification	Chapter 8 from Big Data: Understanding How Data Powers Big Business. Author: B. Schmarzo	

Week 9 - 09 Sep 2024

Module/Topic	Chapter	Events and Submissions/Topic
Identifying Big Data Use Cases	Chapter 9 from Big Data: Understanding How Data Powers Big Business. Author: B. Schmarzo	Assessment 2: Presentation on a Big Data Strategy Due: Week 9 Friday (13 Sept 2024) 11:45 pm AEST

Week 10 - 16 Sep 2024

Module/Topic	Chapter	Events and Submissions/Topic
Cloud Computing and Business Intelligence: emerging trends and future impacts of business analytics	Chapter 14 from Business Intelligence and Analytics: Systems for Decision Support. Authors: R Sharda, D Delen, E Turban	

Week 11 - 23 Sep 2024

Module/Topic	Chapter	Events and Submissions/Topic
Solution Engineering	Chapter 10 from Big Data: Understanding How Data Powers Big Business. Author: B. Schmarzo.	

Week 12 - 30 Sep 2024

Module/Topic	Chapter	Events and Submissions/Topic
1. Big Data Architectures 2. Big Data Reference Architectures	Online Resources Online Resources	COIT20253 Assessment 3: Analyzing Business Datasets with Big Data Tools for Strategy Formulation Due: Week 12 Friday (4 Oct 2024) 11:45 pm AEST

Review/Exam Week - 07 Oct 2024

Module/Topic	Chapter	Events and Submissions/Topic
No exam for this unit		

Module/Topic	Chapter	Events and Submissions/Topic
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Term Specific Information

Unit Coordinator: Dr. Meena Jha
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Assessment Tasks

1 Assessment 1: Exploring Big Data Opportunities for Value Creation

Assessment Type

Written Assessment

Task Description

COIT20253 Assessment 1: Exploring Big Data Opportunities for Value Creation

Due Date Week 6 Friday 11:45 PM AEST

Weighting:35%

Assessment Task:

This assessment will help you understand the strategic importance of Big Data in your chosen industry and develop a practical plan for its implementation, backed by real-life examples and data-driven insights. In this assessment, you are required to choose one of the following industries: Healthcare, Insurance, Retailing, Marketing, Finance, Human resources, Manufacturing, Telecommunications, or Travel.

Assessment Overview: This assessment consists of two parts:

Part A: Report on Big Data Opportunities and Value Creation

In Part A, you are required to prepare a detailed report on how Big Data could create opportunities and help in the value-creation process for your chosen industry. Your report should cover the following aspects:

New Business Insights: Describe the new business insights that Big Data can provide for your industry.

Illustrate how Big Data can transform your industry by introducing new services or entering new markets.

Additionally, you should elaborate on how you can leverage four key Big Data business drivers—structured data, unstructured data, low-latency data, and predictive analytics—to create value for the chosen industry. Use frameworks such as Porter's Value Chain Analysis and Porter's Five Forces Analysis to identify how these Big Data business drivers could impact your business initiatives. You are also required to aid your understanding with diagrams. Generate your diagram using any drawing tool such as MS Visio.

Part B: Identifying and Utilizing a Relevant Big Data Dataset

In Part B, you will identify at least one dataset relevant to your chosen industry. The datasets can be identified using an Open dataset repository such as Kaggle.com. The dataset can be a collection of structured, unstructured, or semi-structured data. Your task is to:

Dataset Selection: Discuss how you chose this dataset among other available datasets.

Metadata Presentation: Identify and present the metadata of the dataset.

Opportunities Identification: Describe the opportunities that the chosen dataset could create for your industry.

Report Length and Requirements:

The report should be approximately 2500 words.

You are required to conduct extensive reading and reference more than 10 articles relevant to Big Data business impacts, opportunities, and the value creation process.

Provide in-text referencing of the chosen articles.

Guidelines for Completion:

Research: Conduct thorough research on Big Data applications in your chosen industry.

Analysis: Use analytical frameworks to structure your findings and insights.

Critical Thinking: Apply critical thinking to assess the impact of Big Data technologies.

Referencing: Ensure proper citation and referencing of all sources used. Include a Cover page (Student name, Student ID, Unit ID, Campus, Lecturer, and Tutor name).

Include a Table of Contents (this should be MS-Word generated).

Assessment Due Date

Week 6 Friday (23 Aug 2024) 11:45 pm AEST
Assessment 1 is due on Friday of Week 6 at 11:45 PM AEST

Return Date to Students

Week 8 Friday (6 Sept 2024)
Within two weeks of submission

Weighting

35%

Assessment Criteria

You will be assessed based on your ability to analyze and reflect on how organizations are leveraging non-traditional valuable data (unstructured, real-time) with traditional enterprise data (structured) for business intelligence and value creation. The marking criteria for this assessment are as follows.

Part A (25 marks):

Executive Summary - 2 marks

Table of Contents - 1 mark

Introduction - 2 marks

New Business Insights and Big Data Opportunities - 2 marks

Optimization-2 marks

Revenue Opportunities: 2 marks

Industry Transformation: 2 marks

Value Creation using Big Data - 2 marks

Porter's Value Chain Analysis - 3 marks

Porter's Five Forces Analysis - 3 marks

Conclusion - 2 marks

References - 2 marks

Part B (10 marks):

Dataset identification - 2 marks

Metadata of the chosen dataset - 3 marks

Business opportunities through the chosen dataset - 5 marks

Referencing Style

- [Harvard \(author-date\)](#)

Submission

Online

Submission Instructions

You must upload the written report to Moodle as a Microsoft Office Word file by the above due date.

Learning Outcomes Assessed

- Apply concepts and principles of big data to evaluate and explain how large volume of structured and unstructured data are managed in an organisation
- Analyse critically and reflect on how organisations are including non-traditional valuable data with the traditional enterprise data to do the business intelligence analysis

Graduate Attributes

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

2 Assessment 2: Presentation on a Big Data Strategy

Assessment Type

Presentation

Task Description

COIT20253 Assessment 2: Presentation on a Big Data Strategy

Due Date Week 9 Friday 11:45 PM AEST **Weighting:**25%

Assessment Task: This assessment will help you develop a practical and strategic approach to utilizing Big Data in your chosen industry and enhance your ability to communicate your strategies effectively through a presentation.

Assessment Overview: This assessment consists of developing a comprehensive Big Data strategy document and delivering a presentation based on this strategy. You can choose the same industry as your previous assessment or select a new one. You will use the dataset identified in your previous assessment or opt for a different one. The presentation will be for 15 minutes and will start from week 10. You are required to submit the presentation deck on Moodle by Friday week 9, 11:45 PM, irrespective of your presentation schedule. Your tutor will send the presentation schedule by week 6.

Assessment Steps: Your Big Data strategy document should include the following:

1. **Targeted Business Strategy:**

Develop a targeted business strategy for the application of Big Data in your chosen industry.
Break down the business strategy into key business initiatives.

2. **Outcomes and Critical Success Factors:**

Identify the outcomes and critical success factors to support the key business initiatives.

3. **Task Identification:**

Determine the specific tasks needed to execute and support the targeted business initiatives.

4. **Data Sources Identification:**

Identify the data sources required to support your business initiatives, including the dataset from your previous assessment and any additional datasets needed.

5. **Turning Strategies into Actions:**

Identify the Big Data analytics and business intelligence requirements.

Specify how the data will be used to gain actionable insights to support your business initiatives.

Assessment Due Date

Week 9 Friday (13 Sept 2024) 11:45 pm AEST

All presentation slides must be submitted on Moodle by Week 9 Friday at 11:45 PM AEST. The presentation will start from week 10 and continue till week 12.

Return Date to Students

Exam Week Friday (18 Oct 2024)

The assessment marks will be released on the certification date as the presentation will continue till week 12.

Weighting

25%

Assessment Criteria

You will be assessed based on your ability to develop Big Data strategies for data-centric organizations to meet client requirements and to apply Big Data architecture, tools, and technologies for decision making and problem-solving. The marking criteria for this assessment are as follows.

Demonstrated Understanding of Strategy Document - 6 marks

Turning Strategies into Actions - 6 marks

Clarity, Consistency and Structure of Presentation - 3 marks

Use of Quality References - 3 marks

Visual Aids - 3 marks

Time Management - 2 marks

Quality Response to Questions - 2 marks

Referencing Style

- [Harvard \(author-date\)](#)

Submission

Online

Submission Instructions

You must upload the presentation file as ppt to Moodle unit site by the above due date.

Learning Outcomes Assessed

- Develop big data strategy for data-centric organisations to meet client requirements
- Apply big data architecture, tools, and technologies for decision making and problem solving in the organisational context.

Graduate Attributes

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

3 COIT20253 Assessment 3: Analyzing Business Datasets with Big Data Tools for Strategy Formulation

Assessment Type

Project (applied)

Task Description

COIT20253 Assessment 3: Analyzing Business Datasets with Big Data Tools for Strategy Formulation

Due Date Week 12 Friday 11:45 PM AEST

Weighting: 40%

Assessment Task: This is an individual assessment. You are required to produce a report based on the Big Data strategy document you developed for Assessment 2 (Presentation). Additionally, you will analyze the datasets relevant to the business that you identified in Assessment 1 using Big Data tools and describe how the outputs of these tools could help you create the Big Data Strategy.

Your assessment will follow the Report Structure as follows:

Big Data Use Cases: Identify Big Data use cases. This is based on your assessment 2.

Critical Analysis of Big Data Technologies: Analyze different Big Data technologies, data models, processing architectures, and query languages. Discuss the strengths and limitations of each.

Big Data Analytics and Business Intelligence Tools: Explore various analytics and BI tools applicable to your chosen datasets. Explain how these tools can help businesses gain actionable insights from Big Data.

Big Data Technologies for Data Management: Discuss the technologies used for data collection, storage, transformation, processing, and analysis to support your use cases.

Big Data Technology Stack and Processing Architecture: Illustrate the technology stack and processing architecture required for your use cases. Provide a rationale for each choice.

User Experience for Decision-Making: Specify the user experiences designed to aid in decision-making. Your audience is executive business professionals with extensive business experience but limited ICT knowledge. They need to understand how new Big Data technologies applied to the datasets can benefit their business.

Report Requirements:

- Include a Cover page (Student name, Student ID, Unit ID, Campus, Lecturer, and Tutor name).
- The length of the report should be around 3000 words.
- Conduct extensive reading of more than 10 articles relevant to the chosen Big Data use cases, technologies, architectures, and data models.
- Provide in-text referencing of the chosen articles.
- Include a Table of Contents (this should be MS-Word generated).

The report must adhere to a standard report structure, including an executive summary. Ensure clarity, coherence, and proper citation throughout the document. This assessment will demonstrate your ability to develop a strategic Big Data plan and communicate its benefits effectively to a non-technical executive audience.

Assessment Due Date

Week 12 Friday (4 Oct 2024) 11:45 pm AEST

The assessment is due on Friday week 12 11:45 AEST.

Return Date to Students

Marks of this assignment will be released on the certification date.

Weighting

40%

Assessment Criteria

You will be assessed based on your ability to critically analyse, use and evaluate different Big Data technologies and to apply Big Data architecture, tools, and technologies to support Big Data use cases. The marking criteria for this assessment are as follows.

Executive Summary - 3 marks

Table of Contents - 2 marks

Introduction - 2 marks

Big Data Use Cases - 3 marks

Critical Analysis of Big Data Technologies - 8 marks

Use of Big Data tools on the dataset - 5 marks

Critical analysis of the output - 8 marks

Big Data Architecture Solution - 3 marks

Conclusion - 3 marks

References - 3 marks

Referencing Style

- [Harvard \(author-date\)](#)

Submission

Online

Submission Instructions

You must upload the written report to Moodle unit site as a Microsoft Office Word file by the above due date.

Learning Outcomes Assessed

- Critically analyse and evaluate different big data technologies used for decision making in an organisation
- Apply big data architecture, tools, and technologies for decision making and problem solving in the organisational context.

Graduate Attributes

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

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 [Academic Learning Centre \(ALC\)](#) 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