



# ACCG892

## Blockchain for Competitive Advantage

S2 Weekend 2019

*Dept of Accounting & Corporate Governance*

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#### **Disclaimer**

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## General Information

Unit convenor and teaching staff

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Credit points

4

Prerequisites

4cp in ACCG or ACST or AFIN or BUS or ECON or MKTG units at 600 level

Corequisites

Co-badged status

Unit description

Blockchain is an emerging technology that is being adopted by many industries to achieve competitive advantage. Students will evaluate how blockchain technology in a specific industry provides competitive advantage. The primary objective of this unit is for students to be able to critically assess the benefits and risks of adopting blockchain technology and examine how organisations can take advantage of future trends to achieve competitive advantage.

## Important Academic Dates

Information about important academic dates including deadlines for withdrawing from units are available at <https://www.mq.edu.au/study/calendar-of-dates>

## Learning Outcomes

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

Explain the structure of Blockchain including the benefits and risks

Evaluate how Blockchain provides competitive advantage in a specific industry

Critically assess the applications of Blockchain

Explain the legal, ethical and governance issues relating to Blockchain

Investigate future trends in Blockchain and associated technologies

## Assessment Tasks

Name	Weighting	Hurdle	Due
Assessed Coursework	30%	No	Weeks 3-12 (10 weeks)
Specific Blockchain Adoption	30%	No	Week 7 (15 September 2019)
Future of Blockchain	40%	No	Week 13 (10 November 2019)

### Assessed Coursework

Due: **Weeks 3-12 (10 weeks)**

Weighting: **30%**

A variety of activities will be assigned each week from weeks 3 to 12 completed either online (for example, in discussion forums) or in Workshops. Full details are available on the iLearn website.

#### Extensions

No extensions will be granted. Students who have not submitted the task prior to the deadline will be awarded a mark of 0 for the task, except for cases in which an application for special consideration is made and approved (see <https://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/policies/special-consideration>).

#### Penalty for Late Submission

Not applicable

On successful completion you will be able to:

- Explain the structure of Blockchain including the benefits and risks
- Evaluate how Blockchain provides competitive advantage in a specific industry
- Critically assess the applications of Blockchain
- Explain the legal, ethical and governance issues relating to Blockchain
- Investigate future trends in Blockchain and associated technologies

### Specific Blockchain Adoption

Due: **Week 7 (15 September 2019)**

Weighting: **30%**

The aim of this assessment task is to investigate a specific blockchain solution and case study to understand how blockchain can be used to achieve competitive advantage (full details are

available on iLearn).

### **Submission**

All reports will be submitted through Turnitin on iLearn and marked through grademark (the online marking system). Students will receive feedback within two weeks of the report submission through Grademark and Gradebook on the iLearn website.

### **Extensions**

No extensions will be granted.

### **Penalty for Late Submission**

No extensions will be granted. There will be a deduction of 10% of the total available marks made from the total awarded mark for each 24 hour period or part thereof that the submission is late (for example, 25 hours late in submission – 20% penalty). This penalty does not apply for cases in which an application for special consideration is made and approved (see <https://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/policies/special-consideration>). No submission will be accepted after solutions have been posted.

On successful completion you will be able to:

- Explain the structure of Blockchain including the benefits and risks
- Evaluate how Blockchain provides competitive advantage in a specific industry
- Critically assess the applications of Blockchain

## **Future of Blockchain**

Due: **Week 13 (10 November 2019)**

Weighting: **40%**

The aim of this assessment task is to research the future of Blockchain adoption and provide recommendations for managers, boards and stakeholders for adopting Blockchain solutions with the understanding of the potential future scenarios. Full details and rubric are available on iLearn.

### **Submission**

All reports will be submitted through Turnitin on iLearn and marked through grademark (the online marking system). Students will receive feedback within two weeks of the report submission through Grademark and Gradebook on the iLearn website.

### **Extensions**

No extensions will be granted.

### **Penalty for Late Submission**

There will be a deduction of 10% of the total available marks made from the total awarded mark for each 24 hour period or part thereof that the submission is late (for example, 25 hours late in

submission – 20% penalty). This penalty does not apply for cases in which an application for special consideration is made and approved (see <https://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/policies/special-consideration>). No submission will be accepted after solutions have been posted.

On successful completion you will be able to:

- Critically assess the applications of Blockchain
- Explain the legal, ethical and governance issues relating to Blockchain
- Investigate future trends in Blockchain and associated technologies

## Delivery and Resources

### Workshops

This unit is taught in Blockmode. There are four workshops and a site visit to the the Australian Stock Exchange:

**Week 1:** 3rd August (10am to 4pm)

**Week 5:** 31 August (10am to 4pm)

**Week 9:** 12 October (10am to 4pm)

**Week 12:** 2 November (10am to 4pm)

**Location:** 17 WW 236 (North Ryde Campus)

**Australian Stock Exchange Visit:** Wednesday 16<sup>th</sup> October 3pm-4:30pm

### Technology Used

Course material is available on the course website (<https://www.mq.edu.au/iLearn/>). Written assessment tasks are submitted through Turnitin. Access to the library website and other internet resources will be necessary to complete this unit.

### Expectations and Workload

Students are expected to spend around 150 hours on this unit. Students should make a serious attempt on each of the assessment task to successfully meet the unit outcomes. As a guide students should expect to spend the time allocated on the following tasks:

	Activities	Hours
1	Workshop attendance	24
2	Weekly activities 2 hours per week (approximately)	26

3	Contribution to weekly activities (assessed coursework)	30
4	Practice-based task: Case Study on Specific Blockchain Adoption	30
5	Research Report: Future Trends of Blockchain	40
	Total	150

## Unit Schedule

Week	Dates	Activities
Week 1	29 July – 4 <sup>th</sup> August 2019	Workshop 1 (3 <sup>rd</sup> August 2019) 10am to 4pm: Theme: Blockchain overview, Unit requirements, Expectations
Week 2	5 <sup>th</sup> August – 11 <sup>th</sup> August 2019	Existing Technologies and Blockchain Discussion forum: <b>Blockchain Revolution without the Blockchain</b>
Week 3	12 <sup>th</sup> August – 18 <sup>th</sup> August	Opportunities of Blockchain
Week 4	19 <sup>th</sup> August – 25 <sup>th</sup> August 2019	Risks of Blockchain
Week 5	26 <sup>th</sup> August - 1 <sup>st</sup> September 2019	Workshop 2 (31 <sup>st</sup> August 2019) 10am to 4pm: Theme: Critical Analysis of Blockchain
Week 6	2 <sup>nd</sup> September – 8 <sup>th</sup> September 2019	Applications: Healthcare
Week 7	9 <sup>th</sup> September – 15 <sup>th</sup> September 2019	Applications: Government
Week 8	30 <sup>th</sup> September – 6 October 2019	Applications: Supply Chain Management
Week 9	7 <sup>th</sup> October – 13 <sup>th</sup> October 2019	Workshop 3 (12 <sup>th</sup> October 2019) 10am to 4pm: Theme: Using Blockchain for Competitive Advantage (Examples of Industries and Organisations)
Week 10	14 <sup>th</sup> October – 20 <sup>th</sup> October 2019	Blockchain and Central Banks/Finance Sector
	<b>Wednesday 16<sup>th</sup> October 3pm-4:30pm</b>	<b>Site Visit: ASX</b>

Week 11	21 <sup>st</sup> October – 27 <sup>th</sup> October 2019	Blockchain and the transformation of the economy
Week 12	28 <sup>th</sup> October – 3 <sup>rd</sup> November 2019	Workshop 4 (2 <sup>nd</sup> November 2019) 10am to 4pm Theme: Future Trends: Blockchain
Week 13	4 <sup>th</sup> November – 10 <sup>th</sup> November	Emerging technologies and blockchain

## Policies and Procedures

Macquarie University policies and procedures are accessible from [Policy Central](https://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/policy-central) (<https://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/policy-central>). Students should be aware of the following policies in particular with regard to Learning and Teaching:

- [Academic Appeals Policy](#)
- [Academic Integrity Policy](#)
- [Academic Progression Policy](#)
- [Assessment Policy](#)
- [Fitness to Practice Procedure](#)
- [Grade Appeal Policy](#)
- [Complaint Management Procedure for Students and Members of the Public](#)
- [Special Consideration Policy](#) (**Note:** *The Special Consideration Policy is effective from 4 December 2017 and replaces the Disruption to Studies Policy.*)

Undergraduate students seeking more policy resources can visit the [Student Policy Gateway](https://students.mq.edu.au/support/study/student-policy-gateway) (<https://students.mq.edu.au/support/study/student-policy-gateway>). It is your one-stop-shop for the key policies you need to know about throughout your undergraduate student journey.

If you would like to see all the policies relevant to Learning and Teaching visit [Policy Central](https://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/policy-central) (<https://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/policy-central>).

## Student Code of Conduct

Macquarie University students have a responsibility to be familiar with the Student Code of Conduct: <https://students.mq.edu.au/study/getting-started/student-conduct>

## Results

Results published on platform other than [eStudent](#), (eg. iLearn, Coursera etc.) or released directly by your Unit Convenor, are not confirmed as they are subject to final approval by the University. Once approved, final results will be sent to your student email address and will be made available in [eStudent](#). For more information visit [ask.mq.edu.au](https://ask.mq.edu.au) or if you are a Global MBA student contact [globalmba.support@mq.edu.au](mailto:globalmba.support@mq.edu.au)

## Student Support

Macquarie University provides a range of support services for students. For details, visit <http://students.mq.edu.au/support/>

## Learning Skills

Learning Skills ([mq.edu.au/learningskills](http://mq.edu.au/learningskills)) provides academic writing resources and study strategies to improve your marks and take control of your study.

- [Workshops](#)
- [StudyWise](#)
- [Academic Integrity Module for Students](#)
- [Ask a Learning Adviser](#)

## Student Services and Support

Students with a disability are encouraged to contact the [Disability Service](#) who can provide appropriate help with any issues that arise during their studies.

## Student Enquiries

For all student enquiries, visit Student Connect at [ask.mq.edu.au](http://ask.mq.edu.au)

If you are a Global MBA student contact [globalmba.support@mq.edu.au](mailto:globalmba.support@mq.edu.au)

## IT Help

For help with University computer systems and technology, visit [http://www.mq.edu.au/about\\_us/offices\\_and\\_units/information\\_technology/help/](http://www.mq.edu.au/about_us/offices_and_units/information_technology/help/).

When using the University's IT, you must adhere to the [Acceptable Use of IT Resources Policy](#). The policy applies to all who connect to the MQ network including students.

## Graduate Capabilities

### PG - Capable of Professional and Personal Judgment and Initiative

Our postgraduates will demonstrate a high standard of discernment and common sense in their professional and personal judgment. They will have the ability to make informed choices and decisions that reflect both the nature of their professional work and their personal perspectives.

This graduate capability is supported by:

### Learning outcomes

- Explain the legal, ethical and governance issues relating to Blockchain
- Investigate future trends in Blockchain and associated technologies



## PG - Discipline Knowledge and Skills

Our postgraduates will be able to demonstrate a significantly enhanced depth and breadth of knowledge, scholarly understanding, and specific subject content knowledge in their chosen fields.

This graduate capability is supported by:

### Learning outcomes

- Explain the structure of Blockchain including the benefits and risks
- Critically assess the applications of Blockchain

### Assessment task

- Assessed Coursework

## PG - Critical, Analytical and Integrative Thinking

Our postgraduates will be capable of utilising and reflecting on prior knowledge and experience, of applying higher level critical thinking skills, and of integrating and synthesising learning and knowledge from a range of sources and environments. A characteristic of this form of thinking is the generation of new, professionally oriented knowledge through personal or group-based critique of practice and theory.

This graduate capability is supported by:

### Learning outcomes

- Explain the structure of Blockchain including the benefits and risks
- Evaluate how Blockchain provides competitive advantage in a specific industry
- Critically assess the applications of Blockchain
- Explain the legal, ethical and governance issues relating to Blockchain
- Investigate future trends in Blockchain and associated technologies

### Assessment tasks

- Assessed Coursework
- Specific Blockchain Adoption

## PG - Research and Problem Solving Capability

Our postgraduates will be capable of systematic enquiry; able to use research skills to create new knowledge that can be applied to real world issues, or contribute to a field of study or practice to enhance society. They will be capable of creative questioning, problem finding and problem solving.

This graduate capability is supported by:

## Learning outcomes

- Evaluate how Blockchain provides competitive advantage in a specific industry
- Investigate future trends in Blockchain and associated technologies

## Assessment tasks

- Specific Blockchain Adoption
- Future of Blockchain

## PG - Effective Communication

Our postgraduates will be able to communicate effectively and convey their views to different social, cultural, and professional audiences. They will be able to use a variety of technologically supported media to communicate with empathy using a range of written, spoken or visual formats.

This graduate capability is supported by:

### Learning outcome

- Critically assess the applications of Blockchain

### Assessment tasks

- Assessed Coursework
- Specific Blockchain Adoption
- Future of Blockchain

## PG - Engaged and Responsible, Active and Ethical Citizens

Our postgraduates will be ethically aware and capable of confident transformative action in relation to their professional responsibilities and the wider community. They will have a sense of connectedness with others and country and have a sense of mutual obligation. They will be able to appreciate the impact of their professional roles for social justice and inclusion related to national and global issues

This graduate capability is supported by:

### Learning outcome

- Explain the legal, ethical and governance issues relating to Blockchain

### Assessment task

- Future of Blockchain