



# ACCG2067

## Foundations of Forensic and Data Analytics

Session 1, Special circumstances 2021

*Department of Accounting & Corporate Governance*

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#### **Disclaimer**

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#### **Notice**

As part of [Phase 3 of our return to campus plan](#), most units will now run tutorials, seminars and other small group activities on campus, and most will keep an online version available to those students unable to return or those who choose to continue their studies online.

To check the availability of face-to-face activities for your unit, please go to [timetable viewer](#). To check detailed information on unit assessments visit your unit's iLearn space or consult your unit convenor.

## General Information

Unit convenor and teaching staff

Rahat Munir

[rahat.munir@mq.edu.au](mailto:rahat.munir@mq.edu.au)

Credit points

10

Prerequisites

50cp at 1000 level or above

Corequisites

Co-badged status

Unit description

This unit introduces students to the practice and procedures of forensic accounting and the important role played by the forensic accountant in the legal and business environment.

Students will be exposed to the theory and principles of application, of data analytics skills and techniques in relation to fraud detection, fraud and risk exposures, dispute resolution, cyber and financial crimes and legal obligations and processes. The unit aims to develop in students an appreciation of how the application of forensic and data analytics skills and strategies are essential to the role of the forensic accountant as an expert witness and professional advisor.

## Important Academic Dates

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

## Learning Outcomes

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

**ULO1:** Understand the role of forensic accounting and its relationship to the legal system, including the legal, ethical and professional obligations of forensic accountants.

**ULO2:** Identify indicators of fraudulent activity and develop awareness of investigative procedures, including an appreciation of the role of evidence in the litigation process.

**ULO3:** Develop awareness of issues and key principles of professional digital forensic practice, including chain of custody and best practice procedures.

**ULO4:** Understand the theory, and principles of application, of data analytics skills and techniques to forensic accounting.

**ULO5:** Recognise mechanisms to uncover or recover evidence from digital devices to support litigation and investigations.

## General Assessment Information

**Late Submission(s) of Assessment:** Where assessment is to be submitted through Turnitin, late assessment must also, where applicable, be submitted through Turnitin. 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 incurs a 20% penalty). Late submissions will not be accepted after solutions have been discussed and/or made available. This penalty does not apply for cases in which an application for Special Consideration is made and approved. Note: applications for Special Consideration Policy must be made within 5 (five) business days of the due date and time.

## Assessment Tasks

Name	Weighting	Hurdle	Due
<a href="#">Group Assignment</a>	45%	No	Wednesday, 26th May 2021 (2PM)
<a href="#">Class Test</a>	25%	No	Saturday, 24 April 2021 (10AM)
<a href="#">Assessed Coursework</a>	30%	No	Week 2, Week 4, Week 6, Week 8, Week 9, Week 10, Week 12

### Group Assignment

Assessment Type <sup>1</sup>: Report

Indicative Time on Task <sup>2</sup>: 25 hours

Due: **Wednesday, 26th May 2021 (2PM)**

Weighting: **45%**

Students are required to complete a group report assignment consisting of individual and group components. Details regarding the nature of the assignment and its requirements will be made available on iLearn early in the session. The properties on which the assessment task is will be assessed are as follows:

Application of knowledge and skills  
Quality of reasoning and appropriate application of data analytic techniques  
Quality of communication and presentation of assignment

The Unit Assessment Guide provides standards and a grading rubric for this assessment task.

On successful completion you will be able to:

- Understand the role of forensic accounting and its relationship to the legal system, including the legal, ethical and professional obligations of forensic accountants.

- Identify indicators of fraudulent activity and develop awareness of investigative procedures, including an appreciation of the role of evidence in the litigation process.
- Develop awareness of issues and key principles of professional digital forensic practice, including chain of custody and best practice procedures.
- Understand the theory, and principles of application, of data analytics skills and techniques to forensic accounting.
- Recognise mechanisms to uncover or recover evidence from digital devices to support litigation and investigations.

## Class Test

Assessment Type <sup>1</sup>: Quiz/Test

Indicative Time on Task <sup>2</sup>: 10 hours

Due: **Saturday, 24 April 2021 (10AM)**

Weighting: **25%**

The purpose of the diagnostic test is to provide students with feedback on their knowledge and application of the material using a formative assessment task early in the session. The test will be marked based on the appropriate application of knowledge and skills to short answer and case based questions.

On successful completion you will be able to:

- Understand the role of forensic accounting and its relationship to the legal system, including the legal, ethical and professional obligations of forensic accountants.
- Identify indicators of fraudulent activity and develop awareness of investigative procedures, including an appreciation of the role of evidence in the litigation process.
- Understand the theory, and principles of application, of data analytics skills and techniques to forensic accounting.

## Assessed Coursework

Assessment Type <sup>1</sup>: Participatory task

Indicative Time on Task <sup>2</sup>: 14 hours

Due: **Week 2, Week 4, Week 6, Week 8, Week 9, Week 10, Week 12**

Weighting: **30%**

Students are required to complete regular assessed coursework activities consisting of seven homework submissions. Details on homework questions coverage will be provided in the Unit Weekly Guide available on iLearn. Homework submissions activities are designed to encourage students to actively engage with the Unit material and to provide students with timely feedback on their performance throughout the session. Homework submissions will be marked on the basis of original effort. The marking criteria to be applied to homework submissions is provided in the Unit Assessment Guide available on iLearn. Each homework submission is equally weighted

and the best 5 of 7 homework submissions will count towards your homework submission marks.

On successful completion you will be able to:

- Understand the role of forensic accounting and its relationship to the legal system, including the legal, ethical and professional obligations of forensic accountants.
- Identify indicators of fraudulent activity and develop awareness of investigative procedures, including an appreciation of the role of evidence in the litigation process.
- Develop awareness of issues and key principles of professional digital forensic practice, including chain of custody and best practice procedures.
- Recognise mechanisms to uncover or recover evidence from digital devices to support litigation and investigations.

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<sup>1</sup> If you need help with your assignment, please contact:

- the academic teaching staff in your unit for guidance in understanding or completing this type of assessment
- the [Learning Skills Unit](#) for academic skills support.

<sup>2</sup> Indicative time-on-task is an estimate of the time required for completion of the assessment task and is subject to individual variation

## Delivery and Resources

This is an online unit. Details of assessments and online forums will be available on iLearn.

## Unit Schedule

### Unit Schedule

WEEK	LEARNING OBJECTIVE	CONTENT	READINGS
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<p>1</p>	<p>LO1: Understand the role of forensic accounting and its relationship to the legal system, including the legal, ethical and professional obligations of forensic accountants</p>	<p>Overview of the Australian Legal System</p> <p>How Law is Made</p> <p>What the Law Deals With</p> <p>Government in Australia</p> <p>The Legislature</p> <p>The Executive</p> <p>The Judiciary</p> <p>The Legal Profession</p> <p>Hearsay</p> <p>Opinion</p> <p>Standard of Proof</p>	<p><i>Australian legal system [online]. HOT TOPICS, No. 79, 2011: 1-28</i></p> <p>Evidence Act 1995 (Cth) extracts:</p> <ul style="list-style-type: none"> <li>• Part 3.2 Hearsay: s. 59, s. 60, s. 63, s. 64, s. 69, s. 71</li> <li>• Part 3.3 Opinion: s. 76, s. 78, s. 79</li> <li>• Part 4.1 Standard of Proof: s. 140, s. 141</li> </ul>
<p>2</p>	<p>LO1: Understand the role of forensic accounting and its relationship to the legal system, including the legal, ethical and professional obligations of forensic accountants</p>	<p>The Role of The Expert</p> <p>Existence of Formal Qualifications</p> <p>Australia's Uniform Evidence Legislation</p> <p>The Opinion Rule</p> <p>The Admissibility Regime</p> <p>Specialised Knowledge</p> <p>Fields of Expertise</p> <p>Expert Evidence and Hearsay</p> <p>Certificates of Expert Evidence</p>	<p><i>Expert evidence. (n.d.), Chapter 2 - Common Law Evidentiary Rules (selected sections only)</i></p> <p><i>Expert evidence. (n.d.), Chapter 3 - Statutory Evidentiary Rules (selected sections only)</i></p>

3	LO1: Understand the role of forensic accounting and its relationship to the legal system, including the legal, ethical and professional obligations of forensic accountants	Duties and Responsibilities  The Expert's Testimony  Rules of Evidence  Expert Witness Code of Conduct	R. Hoffman, W. Finney, Ph. Cox & K, Cooper, <i>The Accountant as an Expert Witness: A basic guide to forensic accounting - Chapter 2: Overview - the legal framework</i> (CCH Australia Limited, 2007)  Schedule 7 – Expert Witness Code of Conduct Uniform Civil Procedure Rules 2005 (NSW)
4	LO2: Identify indicators of fraudulent activity and develop awareness of investigative procedures, including an appreciation of the role of evidence in the litigation process	Introduction to Fraud  Types of Fraud  The Need for Analysis Tools	<i>Forensic Accounting and Fraud Investigation for Non-Experts</i> , H. Silverstone and M. Sheetz, Chapter 2, Fraud in Society
5	LO2: Identify indicators of fraudulent activity and develop awareness of investigative procedures, including an appreciation of the role of evidence in the litigation process	APES 215  Investigations: planning the scope and structure	APES215  <i>Forensic Accounting</i> , R. Rufus and others, Chapter 7 Conducting a Fraud Investigation
6	LO2: Identify indicators of fraudulent activity and develop awareness of investigative procedures, including an appreciation of the role of evidence in the litigation process	Case management  Reporting the findings  Closing the investigation	<i>Corruption in Focus</i> , Crime and Corruption Commission, Chapter 6 Planning an investigation (2016)
<b>MID-SEMESTER BREAK</b>			
7	LO3: Develop awareness of issues and key principles of professional digital forensic practice, including chain of custody and best practice procedures	Computers  Forensic IT  Digital forensics lab  Software used by Forensic IT  Conducting computer forensics investigations	PricewaterhouseCoopers, <i>Electronic evidence - What if there's no paper trail?</i> (2008)  J. Brozovsky and J. Luo, <i>Digital forensics: a new challenge for accounting professionals</i> (Strategic Finance, 2013)  R. Kardell, <i>Analysis of digital financial data</i> (FBI Law Enforcement Bulletin, 2011)

8	LO3: Develop awareness of issues and key principles of professional digital forensic practice, including chain of custody and best practice procedures	<p>Critical Steps in Gathering Evidence</p> <p>Chain of Custody</p> <p>Evidence Created</p> <p>Introduction to Digital Forensics</p>	<p><i>A Guide to Forensic Accounting Investigation</i>, W. Kenyon and P. D. Tilton, Chapter 10, Building a Case: Gathering and Documenting Evidence</p> <p><i>Essentials of Forensic Accounting</i>, M. A. Crain and others, Chapter 11, Digital Forensics</p>
9	LO4: Understand the theory, and principles of application, of data analytics skills and techniques to forensic accounting	<p>Introduction to Financial Analysis</p> <p>Key Ratios</p> <p>Data Mining as an Analysis Tool</p>	<p><i>Forensic Accounting and Fraud Investigation for Non-Experts</i>, H. Silverstone and M. Sheetz, Chapter 5, Fundamental Principles of Financial Analysis</p>
10	LO4: Understand the theory, and principles of application, of data analytics skills and techniques to forensic accounting	<p>Disbursement Fraud</p> <p>Payroll Fraud</p> <p>Fraud Risk Structure</p> <p>Data Analysis</p> <p>Data Mining Planning</p>	<p><i>The Fraud Audit: Responding to the Risk of Fraud in Core Business Systems</i>, L. W. Vona, Chapter 10, Disbursement Fraud</p> <p><i>The Fraud Audit: Responding to the Risk of Fraud in Core Business Systems</i>, L. W. Vona, Chapter 12, Payroll Fraud</p>
11	LO5: Recognise mechanisms to uncover or recover evidence from digital devices to support litigation and investigations.	<p>Scientific Method and Digital Forensics</p> <p>Digital Forensic Analysis</p> <p>Data Gathering and Observation</p> <p>Conclusions and Reporting</p>	<p><i>Handbook of Digital Forensics and Investigation</i>, E. Casey, Chapter 2, Forensic Analysis</p>



12	LO5: Diagnose and appraise mechanisms to uncover or recover evidence from digital devices to support litigation and investigations	<p>Introduction to Electronic Discovery</p> <p>Case Management</p> <p>Identification of Electronic Data</p> <p>Forensic Preservation of Data</p> <p>Data Processing</p> <p>Production of Electronic Data</p>	<i>Handbook of Digital Forensics and Investigation</i> , E. Casey, Chapter 3, Electronic Discovery
13	Revision		

## Policies and Procedures

Macquarie University policies and procedures are accessible from [Policy Central \(https://policies.mq.edu.au\)](https://policies.mq.edu.au). 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](#)

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

To find other policies relating to Teaching and Learning, visit [Policy Central \(https://policies.mq.edu.au\)](https://policies.mq.edu.au) and use the [search tool](#).

## Student Code of Conduct

Macquarie University students have a responsibility to be familiar with the Student Code of Conduct: <https://students.mq.edu.au/admin/other-resources/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](#) 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 help you improve your marks and take control of your study.

- [Getting help with your assignment](#)
- [Workshops](#)
- [StudyWise](#)
- [Academic Integrity Module](#)

The Library provides online and face to face support to help you find and use relevant information resources.

- [Subject and Research Guides](#)
- [Ask a Librarian](#)

## Student Enquiry Service

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

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

## Equity 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.

## 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.