

ACCG2067

Foundations of Forensic and Data Analytics

Session 1, Online-scheduled-In person assessment, North Ryde 2022

Department of Accounting and Corporate Governance

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General Information

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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://www.mq.edu.au/study/calendar-of-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.

UL05: Recognise mechanisms to uncover or recover evidence from digital devices to support litigation and investigations.

General Assessment Information

To complete this unit satisfactorily, students must attempt all components of the assessments and obtain a minimum aggregate grade of 50%.

LATE SUBMISSIONS OF ASSESSMENTS

Unless a Special Consideration request has been submitted and approved, no extensions will be granted. There will be a deduction of 10% of the total available assessment-task marks made from the total awarded mark for each 24-hour period or part thereof that the submission is late. Late submissions will only be accepted up to 96 hours after the due date and time. No late submissions will be accepted for timed assessments – e.g., quizzes, online tests.

SPECIAL CONSIDERATION

To request an extension on the due date/time for a timed or non-timed assessment task, you must submit a Special Consideration application. An application for Special Consideration does not guarantee approval. The approved extension date for a student becomes the new due date for that student. The late submission penalties above then apply as of the new due date.

Assessment Tasks

Name	Weighting	Hurdle	Due
Assessed Coursework	30%	No	Week 2, Week 4, Week 6, Week 8, Week 9, Week 10, Week 12
Class Test	25%	No	Week 9, Sunday, 10.30 AM
Group Assignment	45%	No	Week 12, Friday, 11.59 PM

Assessed Coursework

Assessment Type $\frac{1}{2}$: Participatory task Indicative Time on Task $\frac{2}{2}$: 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.

Class Test

Assessment Type ¹: Quiz/Test Indicative Time on Task ²: 10 hours Due: **Week 9, Sunday, 10.30 AM** 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.

Group Assignment

Assessment Type 1: Report Indicative Time on Task 2: 25 hours Due: Week 12, Friday, 11.59 PM 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.

¹ 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 Writing Centre for academic skills support.

² 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.

This unit is run in intensive mode. Please review the actual timetable for classes at www.timetables.mq.edu.au.

Unit Schedule

LEARNING OBJECTIVE	CONTENT	READINGS
LO1: Understand the role of forensic accounting and its relationship to the legal system, including the legal, ethical and professional obligations of forensic accountants	Overview of the Australian Legal System	Australian legal system [online]. HOT TOPICS, No. 79, 2011: 1-28
	How Law is Made	
	What the Law Deals With	Evidence Act 1995 (Cth) extracts:
	Government in Australia	• Part 3.2 Hearsay: s. 59, s. 60, s. 63, s. 64, s.
	The Legislature	69, s. 71
	The Executive	• Part 3.3 Opinion: s. 76, s. 78, s. 79
	The Judiciary	Part 4.1 Standard of Proof: s. 140, s. 141
	The Legal Profession	
	Hearsay	
	Opinion	
	Standard of Proof	
	LO1: Understand the role of forensic accounting and its relationship to the legal system, including the legal, ethical and professional obligations of	LO1: Understand the role of forensic accounting and its relationship to the legal system, including the legal, ethical and professional obligations of forensic accountants Overview of the Australian Legal System How Law is Made What the Law Deals With Government in Australia The Legislature The Executive The Judiciary The Legal Profession Hearsay Opinion Standard of

2	LO1: Understand the role of forensic accounting and its relationship to the legal system, including the legal, ethical and professional obligations of forensic accountants	The Role of The Expert	<i>Expert evidence</i> . (n.d.), Chapter 2 - Common Law Evidentiary Rules (selected sections only)
		Existence of Formal Qualifications	Expert evidence. (n.d.), Chapter 3 - Statutory Evidentiary Rules (selected sections only)
		Australia's Uniform Evidence Legislation	
		The Opinion Rule	
		The Admissibility Regime	
		Specialised Knowledge	
		Fields of Expertise	
		Expert Evidence and Hearsay	
		Certificates of Expert Evidence	
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	R. Hoffman, W. Finney, Ph. Cox & K, Cooper, The Accountant as an Expert Witness: A basic guide to forensic accounting - Chapter 2: Overview - the legal framework (CCH Australia Limited, 2007)
		The Expert's Testimony	
		Rules of Evidence	Schedule 7 – Expert Witness Code of Conduct Uniform Civil Procedure Rules 2005 (NSW)
		Expert Witness Code of Conduct	
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	Forensic Accounting and Fraud Investigation for Non- Experts, H. Silverstone and M. Sheetz, Chapter 2, Fraud in Society
		Types of Fraud	
		The Need for Analysis Tools	

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	<i>Corruption in Focus</i> , Crime and Corruption Commission, Chapter 6 Planning an investigation (2016)
		Reporting the findings	
		Closing the investigation	

MID-SEMESTER BREAK

7	LO3: Develop awareness of issues and key principles of professional digital forensic practice, including chain of custody and best practice	Computers	PricewaterhouseCoopers, Electronic evidence - What if there's no paper trail? (2008)
	procedures	Forensic IT	J. Brozovsky and J. Luo, Digital forensics: a new challenge for accounting professionals (Strategic Finance, 2013)
		Digital forensics lab	
		Software used by Forensic IT Conducting computer forensics investigations	R. Kardell, Analysis of digital financial data (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	Critical Steps in Gathering Evidence	A Guide to Forensic Accounting Investigation, W. Kenyon and P. D. Tilton, Chapter 10, Building a Case: Gathering and Documenting Evidence
		Chain of Custody	
		Evidence Created	Essentials of Forensic Accounting, M. A. Crain and others, Chapter 11, Digital Forensics
		Introduction to Digital Forensics	

9	LO4: Understand the theory, and principles of application, of data analytics skills and techniques to forensic accounting	Introduction to Financial Analysis	Forensic Accounting and Fraud Investigation for Non- Experts, H. Silverstone and M. Sheetz, Chapter 5, Fundamental Principles of Financial Analysis
		Key Ratios	
		Data Mining as an Analysis Tool	
10	LO4: Understand the theory, and principles of application, of data analytics skills and techniques to forensic accounting	Disbursement Fraud	The Fraud Audit: Responding to the Risk of Fraud in Core Business Systems, L. W. Vona, Chapter 10, Disbursement Fraud
		Payroll Fraud	
		Fraud Risk Structure	The Fraud Audit: Responding to the Risk of Fraud in Core Business Systems, L. W. Vona, Chapter 12, Payroll Fraud
		Data Analysis	
		Data Mining Planning	
11	LO5: Recognise mechanisms to uncover or recover evidence from digital devices to support litigation and investigations.	Scientific Method and Digital Forensics	Handbook of Digital Forensics and Investigation, E. Casey, Chapter 2, Forensic Analysis
		Digital Forensic Analysis	
		Data Gathering and Observation	
		Conclusions and Reporting	
12	LO5: Diagnose and appraise mechanisms to uncover or recover evidence from digital devices to support litigation and investigations	Introduction to Electronic Discovery	Handbook of Digital Forensics and Investigation, E. Casey, Chapter 3, Electronic Discovery
		Case Management	
		Identification of Electronic Data	
		Forensic Preservation of Data	
		Data Processing	
		Production of Electronic Data	

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Policies and Procedures

Macquarie University policies and procedures are accessible from Policy Central (https://policie s.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
- Assessment Procedure
- Complaints Resolution Procedure for Students and Members of the Public
- Special Consideration Policy

Students seeking more policy resources can visit <u>Student Policies</u> (<u>https://students.mq.edu.au/su</u> <u>pport/study/policies</u>). 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 <u>Policy Central (https://policies.mq.e</u> <u>du.au</u>) and use the <u>search tool</u>.

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 <u>eStudent</u>, (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 <u>eStudent</u>. For more information visit <u>ask.mq.edu.au</u> or if you are a Global MBA student contact globalmba.support@mq.edu.au

Academic Integrity

At Macquarie, we believe academic integrity – honesty, respect, trust, responsibility, fairness and courage – is at the core of learning, teaching and research. We recognise that meeting the expectations required to complete your assessments can be challenging. So, we offer you a range of resources and services to help you reach your potential, including free online writing an d maths support, academic skills development and wellbeing consultations.

Student Support

Macquarie University provides a range of support services for students. For details, visit http://stu

dents.mq.edu.au/support/

The Writing Centre

The Writing Centre provides resources to develop your English language proficiency, academic writing, and communication skills.

- Workshops
- Chat with a WriteWISE peer writing leader
- Access StudyWISE
- · Upload an assignment to Studiosity
- Complete the 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 Services and Support

Macquarie University offers a range of <u>Student Support Services</u> including:

- IT Support
- · Accessibility and disability support with study
- Mental health support
- Safety support to respond to bullying, harassment, sexual harassment and sexual assault
- Social support including information about finances, tenancy and legal issues

Student Enquiries

Got a question? Ask us via AskMQ, or contact Service Connect.

IT Help

For help with University computer systems and technology, visit <u>http://www.mq.edu.au/about_us/</u>offices_and_units/information_technology/help/.

When using the University's IT, you must adhere to the <u>Acceptable Use of IT Resources Policy</u>. The policy applies to all who connect to the MQ network including students.