



MKTG3014

Quantitative Insights in Marketing

Session 2, In person-scheduled-weekday, North Ryde 2026

Department of Marketing

Contents

<u>General Information</u>	2
<u>Learning Outcomes</u>	2
<u>General Assessment Information</u>	3
<u>Assessment Tasks</u>	3
<u>Delivery and Resources</u>	6
<u>Unit Schedule</u>	8
<u>Policies and Procedures</u>	8

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General Information

Unit convenor and teaching staff

Unit Convenor/Lecturer

Lana Nan

lane.nan@mq.edu.au

Contact via Email

231, 4 Eastern Road

Tue 3-5pm, by appointment

Credit points

10

Prerequisites

130cp at 1000 level or above including MKTG2002

Corequisites

Co-badged status

Unit description

Quantitative Insights plays a key role to business success, enabling marketers to effectively and insightfully understand markets and consumer behaviour. By employing sophisticated quantitative data collection and analysis methods, marketers are able to identify and evaluate market opportunities, analyse and select target markets, plan and implement marketing mix strategies, as well as assess marketing performance. This unit develops students' knowledge of advanced data procedures in the context of academic and applied research in marketing. This unit focuses on developing students' skills in using multivariate statistical techniques to analyse survey data and using quantitative models to analyse consumer discrete choice behaviour. In this unit, students gain knowledge to design and implement advanced quantitative research to address specific marketing questions, and to inform decision makers with the interpretation of results.

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: Explain and evaluate a range of quantitative techniques that are appropriate for

examining marketing issues

ULO2: Design and implement research instruments to collect data to address marketing issues

ULO3: Analyse quantitative data, interpret and effectively communicate the results.

General Assessment Information

Late Submission Penalties

If you submit your assessment late, 5% of the total possible marks will be deducted for each day (including weekends), up to 7 days. Submissions more than 7 days late will receive a mark of 0.

Example 1 (out of 100):

If you score 85/100 but submit **20 hours late**, you will lose **5 marks** and receive **80/100**.

Example 2 (out of 30):

If you score 27/30 but submit **20 hours late**, you will lose **1.5 marks** and receive **25.5/30**.

Extensions

Automatic short extension: Some assessments are eligible for automatic short extension. You can only apply for an automatic short extension before the due date.

Special Consideration: If you need more time due to serious issues and for any assessments that are not eligible for Short Extension, you must apply for Special Consideration. Need help? Review the [Special Consideration page](#) for further details.

Assessment Tasks

Name	Weighting	Hurdle	Due	Groupwork/Individual	Short Extension	AI Approach
Skills development: Quantitative analysis in practice	30%	No	23/10/2026	Individual	Yes	Open AI
Professional practice: Interdependence analysis & insights	35%	No	18/09/2026	Individual	Yes	Open AI
Professional practice: Dependence analysis & insights	35%	No	06/11/2026	Individual	Yes	Open AI

Skills development: Quantitative analysis in practice

Assessment Type ¹: Portfolio

Indicative Time on Task ²: 11 hours

Due: **23/10/2026**

Weighting: **30%**

Groupwork/Individual: Individual

Short extension ³: Yes

AI Approach: Open AI

The purpose of this assessment is to evaluate a range of quantitative techniques, analyse quantitative data, interpret findings, and effectively communicate the results to address marketing issues.

You will complete various activities during weekly tutorials. Students must select five weekly activities and submit them as a portfolio report.

Skills in focus:

- Discipline knowledge
- Critical thinking and problem solving
- Communication skills
- Digital skills

Deliverable(s): Report [max. 1500 words]

Individual Assessment

On successful completion you will be able to:

- Explain and evaluate a range of quantitative techniques that are appropriate for examining marketing issues
- Analyse quantitative data, interpret and effectively communicate the results.

Professional practice: Interdependence analysis & insights

Assessment Type ¹: Professional task

Indicative Time on Task ²: 12 hours

Due: **18/09/2026**

Weighting: **35%**

Groupwork/Individual: Individual

Short extension ³: Yes

AI Approach: Open AI

The purpose of this assessment is for you to apply quantitative data analysis (interdependence techniques), interpret the findings, and communicate results effectively to address real-world marketing challenges, skills that are essential for informed, strategic decision-making in a data-driven marketing environment. You will analyse a managerial problem, conduct appropriate dependence quantitative data analyses, and provide insights and recommendations to support data-driven decision-making.

Skills in focus:

- Discipline knowledge

- Critical thinking and problem solving
- Work readiness
- Communication skills
- Digital skills

Deliverable(s): Report [max. 2000 words]

Individual Assessment

On successful completion you will be able to:

- Design and implement research instruments to collect data to address marketing issues
- Analyse quantitative data, interpret and effectively communicate the results.

Professional practice: Dependence analysis & insights

Assessment Type ¹: Professional task

Indicative Time on Task ²: 12 hours

Due: **06/11/2026**

Weighting: **35%**

Groupwork/Individual: Individual

Short extension ³: Yes

AI Approach: Open AI

The purpose of this assessment is to apply quantitative data analysis (dependence techniques), interpret findings, and effectively communicate results to address real-world marketing challenges.

You will analyse a managerial problem, conduct appropriate dependence quantitative data analyses, and provide managerial insights and recommendations to support data-driven decision-making.

Skills in focus:

- Discipline knowledge
- Critical thinking and problem solving
- Work readiness
- Communication skills
- Digital skills

Deliverable(s): Report [max. 2000 words]

Individual Assessment

On successful completion you will be able to:

- Design and implement research instruments to collect data to address marketing issues

- Analyse quantitative data, interpret and effectively communicate the results.

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
- [Academic Success](#) 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.

³ An automatic short extension is available for some assessments. Apply through the [Service Connect Portal](#).

Delivery and Resources

Delivery Format

- 3 hours teaching per week consisting of: **1-hour pre-recorded lecture** which will be uploaded on ilearn and **2-hour tutorial (lab session)**.
- Tutorials commence in **Week 1**.
- The timetable for classes can be found on the university website at: <http://timetable.mq.edu.au>

Teaching and Learning Strategy

This unit is aimed at students who have developed higher levels of strategic insight and who desire to improve their skills in data manipulation, analysis and presentation. This is a predominantly **applied unit**, designed to provide students with **technical and analytical skills**. Watching **pre-recorded lectures prior to weekly tutorials is critical**, as it is only by reviewing lectures that students will understand the concepts used in tutorials. Tutorials are held in PC Labs and provide an opportunity to practice analytics **hands-on using SPSS software**. Students will need to practice and research outside of the classroom.

Classes

- Students must familiarise themselves with the **unit's iLearn site**.
- Students should access the unit's iLearn site regularly (**minimum twice a week**) and check for **announcements, updates and posts**.
- Details of teaching times and locations are available at: <https://timetables.mq.edu.au/>
- Students are expected to participate in classes, be prepared to discuss and participate in

class activities **in each week**.

- Students are expected to arrive on time and not to leave until the class ends.

Required and Recommended Texts and/or Materials

Prescribed text:

- Joseph F Hair, Barry J. Babin, Rolph E. Anderson and William C. Black (2019) *Multivariate Data Analysis, 8th Edition*. Cengage. ISBN: 9781473756540
- **Note:** MQ library provides **free access** to the 7th edition of the above book (e-book).
More detailed information is provide on ilearn under '**Unit Infromation and Resources**'.

Recommended texts:

- Andrew F. Hayes (2018) *Introduction to Mediation, Moderation, and Conditional Process Analysis: A Regression-Based Approach, 2nd Edition*. Guilford Publications. ISBN: 9781462534654
- J. Scott Long and Jeremy Freese (2014) *Regression Models for Categorical Dependent Variables Using Stata, 3rd Edition*. Stata Press. ISBN: 9781597181112
- Philip Hans Franses and Richard Paap (2010) *Quantitative Models in Marketing Research*. Cambridge University Press. ISBN: 9780511753794
- James H. Myers and Gary M. Mullet (2003) *Managerial Applications of Multivariate Analysis in Marketing*. South-Western Educational Pub. ISBN: 9780877573012

Additional reading:

- Zhao, X., Lynch Jr, J. G., & Chen, Q. (2010). Reconsidering Baron and Kenny: Myths and truths about mediation analysis. *Journal of Consumer Research*, 37(2), 197-206.
- Bergkvist, L., & Rossiter, J. R. (2007). The predictive validity of multiple-item versus single-item measures of the same constructs. *Journal of Marketing Research*, 44(2), 175-184.
- Malhotra, N. K. (1984). The use of linear logit models in marketing research. *Journal of Marketing Research*, 21(1), 20-31.
- Paas, L. J., & Sijtsma, K. (2008). Nonparametric item response theory for investigating dimensionality of marketing scales: A SERVQUAL application. *Marketing Letters*, 19(2), 157-170.
- Rossiter, J. R. (2002). The C-OAR-SE procedure for scale development in

marketing. *International Journal of Research in Marketing*, 19(4), 305-335.

Technology Used and Required

- The unit will make use of **iLearn** and **email** for communication with the teaching staff and between students.
- Students will need access to a reliable Internet service to complete this unit.
- Use of a PC, laptop and smart devices is required to complete tasks on iLearn, to access iLearn for course materials and to read the textbook.
- In laboratories, we will use MS-Word, MS-Excel, SPSS software.

Satisfactory Completion of Unit

Students are required to accumulate at least 50% of the total marks possible in order to satisfactorily pass this unit.

Unit Schedule

Please refer to [iLearn](#) for more detailed information about Unit Schedule.

Policies and Procedures

Macquarie University policies and procedures are accessible from [Policy Central](#) (<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](#)
- [Assessment Procedure](#)
- [Complaints Resolution 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>). 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>) 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 connect.mq.edu.au 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 and maths support](#), [academic skills development](#) and [wellbeing consultations](#).

Student Support

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

Academic Success

[Academic Success](#) provides resources to develop your English language proficiency, academic writing, and communication skills.

- [Ask a Study Coach](#)
- [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 [Student Support Services](#) 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 Advocacy](#) provides independent advice on MQ policies, procedures, and processes

Student Enquiries

Got a question? Ask us via the [Service Connect Portal](#), or contact [Service Connect](#).

IT Help

For help with University computer systems and technology, visit <https://students.mq.edu.au/support/technology/service-desk>.

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.

Unit information based on version 2026.04 of the [Handbook](#)