



# STAT8125

## Statistics Project

Session 1, Online-scheduled-weekday 2025

*School of Mathematical and Physical Sciences*

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## General Information

Unit convenor and teaching staff

Unit Convenor/Instructor

Nan Zou

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Room 606, 12 Wally's Walk

Consultation hours: by appointment

Unit Convenor

Nino Kordzakhia

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Room 639, 12 Wally's Walk

Credit points

10

Prerequisites

Admission to MAppStat and (40cp in BCA or STAT units at 8000 level)

Corequisites

(STAT8310 or STAT6110) and STAT8111

Co-badged status

Unit description

This unit comprises a project which either reviews or develops an area of methodology or which discusses the use of statistical methods in a particular subject area.

Learning in this unit enhances student understanding of global challenges identified by the United Nations Sustainable Development Goals ([UNSDGs](#)) Industry, Innovation and Infrastructure

## 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:** apply appropriate statistical models/methods in planning and carrying out a significant statistical analysis project.

**ULO2:** demonstrate a deep understanding of statistical theory and methods.

**ULO3:** use modern statistical software packages in data analysis.

**ULO4:** communicate methods used and results obtained in a clear and concise manner suitable for a non-statistical audience.

**ULO5:** demonstrate the ability to undertake a statistics project independently.

## General Assessment Information

Submission of the Project Report will be online through the iLearn page.

### Late Assessment Submission Penalty

Unless a Special Consideration request has been submitted and approved, a 5% penalty (of the total possible mark of the task) will be applied for each day a written report or presentation assessment is not submitted, up until the 7<sup>th</sup> day (including weekends). After the 7<sup>th</sup> day, a grade of '0' will be awarded even if the assessment is submitted. The submission time for all uploaded assessments is **11:55 pm**. A 1-hour grace period will be provided to students who experience a technical concern.

For any late submission of time-sensitive tasks, such as scheduled tests/exams, performance assessments/presentations, and/or scheduled practical assessments/labs, please apply for [Special Consideration](#).

### Assessments where Late Submissions will be accepted

- Project Report - YES, Standard Late Penalty applies

### Special Consideration

The Special Consideration Policy aims to support students who have been impacted by short-term circumstances or events that are serious, unavoidable and significantly disruptive, and which may affect their performance in assessment. If you experience circumstances or events that affect your ability to complete the written assessments in this unit on time, please inform the convenor and submit a Special Consideration request through <https://connect.mq.edu.au>.

### Requirements to Pass this Unit

To pass this unit you must meet ALL of the following requirements:

- Achieve a total mark equal to or greater than 50%

### Hurdle Assessments

- There is no Hurdle Assessment

### Attendance and Participation

We strongly encourage all students to actively participate in all learning activities. Regular

engagement is crucial for your success in this unit, as these activities provide opportunities to deepen your understanding of the material, collaborate with peers, and receive valuable feedback from instructors, to assist in completing the unit assessments. Your active participation not only enhances your own learning experience but also contributes to a vibrant and dynamic learning environment for everyone.

## Assessment Tasks

Name	Weighting	Hurdle	Due
<a href="#">Project Report</a>	100%	No	08/06/2025

### Project Report

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

Indicative Time on Task <sup>2</sup>: 98 hours

Due: **08/06/2025**

Weighting: **100%**

Perform an analysis of a data set/simulation study and write a substantial report. Where appropriate a literature review should also be included.

On successful completion you will be able to:

- apply appropriate statistical models/methods in planning and carrying out a significant statistical analysis project.
- demonstrate a deep understanding of statistical theory and methods.
- use modern statistical software packages in data analysis.
- communicate methods used and results obtained in a clear and concise manner suitable for a non-statistical audience.
- demonstrate the ability to undertake a statistics project independently.

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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 [Writing Centre](#) 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

There is no group work in this unit.

### Lectures

Every student enrolled in this offering of the unit should attend the weekly Academic Mentorship class which begins in Week 1. Please see iLearn for details.

### Consultation Hours

If you have any questions on the math/programming aspects of lectures or assessments, you could visit our office hours. The office hours will be released in our iLearn webpage.

### Email

We will communicate with you via your university email or through announcements on iLearn. If you have any questions on the logistics part of this unit or any urgent issues, you can always email Nan at [nan.zou@mq.edu.au](mailto:nan.zou@mq.edu.au) and Nan will do his best to help.

## Unit Schedule

Tentatively:

Week	Topic
1	Project data set. Submit 2 research questions before Week 2.
2	Data cleaning.
3	Initial analysis.
4	Complete data summaries and preliminary analysis.
5	Complete initial write up of results.
6	Additional analyses? Complete before Week 7.
7	How to write up the results section. Report writing in general.
8	Complete the introduction, methods and results sections.
9	Additional work that needs to be completed.
10	Start first draft of the project report.
11	Submit the first draft of the project report on iLearn.
12	Submit the second draft of the project report on iLearn.
13	Last minute questions.

## Policies and Procedures

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

[s.mq.edu.au](https://www.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 \(https://students.mq.edu.au/support/study/policies\)](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 [connect.mq.edu.au](https://connect.mq.edu.au) or if you are a Global MBA student contact [globalmba.support@mq.edu.au](mailto: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/>

## 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 [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 [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.

## Changes from Previous Offering

Although in this session there are no changes from the previous offering, we value student feedback to be able to continually improve the way we offer our units. As such we encourage students to provide constructive feedback via student surveys, to the teaching staff directly, or via the FSE Student Experience & Feedback link in the iLearn page.

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Unit information based on version 2025.03 of the [Handbook](#)