



CIVL3201

Transport Engineering

Session 1, In person-scheduled-weekday, North Ryde 2023

School of Engineering

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General Information

Unit convenor and teaching staff

Lecturer

Golnaz Alipour Esgandani

golnaz.alipour@mq.edu.au

Contact via via email

Room 111, Level 1, 50 Waterloo Road, Macquarie Park

By arrangement

Credit points

10

Prerequisites

130cp at 1000 level or above and CIVL1001

Corequisites

Co-badged status

Unit description

This unit provides students with an introduction to transportation and road engineering. It aims to develop skills that are fundamental for civil engineers undertaking typical traffic and transport investigations, and design of transport systems and roads. The first part of the unit focuses on transport planning, economics of transport, and traffic engineering. The second part of the unit is about road engineering including road design standards, geometric design of roads, and maintenance strategies. This unit prepares students to develop fundamental knowledge required for Geotechnical and Transportation Project unit.

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: Demonstrate a fundamental knowledge of transportation systems and traffic flow theories

ULO2: Design a transportation system including intersections and signals using traffic flow concepts

ULO3: Demonstrate a good understanding of road and pavement design, road safety

and maintenance strategies, and environmental issues associated with roads

ULO4: Apply road design standards in the design and construction of roads and identify factors affecting system operations

General Assessment Information

The problem sets include all the activities you do either individually or in a group during the practical sessions as well as the small projects that you submit during the session. In total, all the activities and project submissions will worth 40% of your total mark.

Grading and passing requirement for unit

There are weekly problem sets, the mid session test and a final exam that need to be completed for assessment. In order to pass this unit a student must obtain a mark of 50 or more for the unit (i.e. obtain a passing grade P/ CR/ D/ HD).

For further details about grading, please refer below in the policies and procedures section.

Late assessment submission

Late assessments are not accepted in this unit unless a [Special Consideration](#) has been submitted and approved.

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 assessments in this unit on time, please inform the convenor and submit a Special Consideration request through ask.mq.edu.au.

Assessment Tasks

Name	Weighting	Hurdle	Due
Mid session test	20%	No	Week 7
Problem sets	40%	No	Each week
Invigilated Final Examination	40%	No	TBA

Mid session test

Assessment Type ¹: Quiz/Test

Indicative Time on Task ²: 12 hours

Due: **Week 7**

Weighting: **20%**

Mid session test

On successful completion you will be able to:

- Demonstrate a fundamental knowledge of transportation systems and traffic flow theories
- Design a transportation system including intersections and signals using traffic flow concepts

Problem sets

Assessment Type ¹: Problem set

Indicative Time on Task ²: 26 hours

Due: **Each week**

Weighting: **40%**

Weekly assignment

On successful completion you will be able to:

- Demonstrate a fundamental knowledge of transportation systems and traffic flow theories
- Design a transportation system including intersections and signals using traffic flow concepts
- Demonstrate a good understanding of road and pavement design, road safety and maintenance strategies, and environmental issues associated with roads
- Apply road design standards in the design and construction of roads and identify factors affecting system operations

Invigilated Final Examination

Assessment Type ¹: Examination

Indicative Time on Task ²: 20 hours

Due: **TBA**

Weighting: **40%**

Invigilated Final Examination

On successful completion you will be able to:

- Demonstrate a fundamental knowledge of transportation systems and traffic flow theories
- Design a transportation system including intersections and signals using traffic flow concepts
- Demonstrate a good understanding of road and pavement design, road safety and maintenance strategies, and environmental issues associated with roads
- Apply road design standards in the design and construction of roads and identify factors affecting system operations

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

Lecture and practical sessions start in Week 1.

As practicals are face to face, students who are not able to be on campus in week 1 should contact unit convenor urgently.

Methods of Communication

We will communicate with you via your university email or through announcements on iLearn. Queries to convenors can either be placed on the iLearn discussion board or sent to golnaz.alipour@mq.edu.au from your **university email** address.

COVID Information

For the latest information on the University's response to COVID-19, please refer to the Coronavirus infection page on the Macquarie website: <https://www.mq.edu.au/about/coronavirus-faqs>. Remember to check this page regularly in case the information and requirements change

during semester. If there are any changes to this unit in relation to COVID, these will be communicated via iLearn.

Unit Schedule

Refer to iLearn and lecture notes for the unit schedule.

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](#)
- [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 ask.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/>

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 [AskMQ](#), 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/.

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.