

ΔΛechanical and ΔΛanufacturing Fonineering



ENGG3002

Automotive Engineering

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1. Staff contact

Contact details and consultation times for course convenor

Name: Daniel Eggler Office location: 402H

Email: d.eggler@unsw.edu.au Consultation time: Thursday 2-3pm

Generally, problem-solving session time should be used for direct consultation. If you require further consultation beyond problem-solving sessions, then you may contact me via email to set up a consultation appointment.

Contact details and consultation times for additional lecturers/demonstrators/lab staff

Please see the course Moodle.

2. Important links

Moodle

Lab Access

Computing Facilities

Student Resources

Course Outlines

Engineering Student Support Services Centre

Makerspace

UNSW Timetable

UNSW Handbook

UNSW Mechanical and Manufacturing Engineering

Credit points

This is a 6 unit-of-credit (UoC) course and involves 12 hours pect ### VOE IPO OF

Contact hours

	Day	Time	Location
Lectures	Monday	10am - 12noon	Ainsworth G01
	Tuesday	10am - 12noon	Ainsworth G01
	Wednesday	10am - 12noon	Ainsworth G01
	Thursday	10am - 12noon	Ainsworth 201

Monday

Problem-Solving Class

Learning Outcome Define the key components used in vehicle design and

3. Define the key components used in vehicle design and how these affect automotive performance outcomes.

1.1,

A case study will be used to help students enhance their understanding of the fundamental course concepts. A field trip will be organised to provide a hands-on experience to enrich the learning experience. Upon completion of the field trip, students will complete a technical report. The students will be provided with guided questions and feedback to support their technical writing.

5. Course schedule.

Week	Topic	Location	Day and Time
1a	Introduction to automotive engineering	AW G01	Mon 10am-12noon
1b	Engine Technology	AW G01	Tue 10am-12noon
1c	Transmissions and Drivelines	AW G01	Wed 10am-12noon
1d	Transmissions and Drivelines	AW 201	Thur 10am-12noon
2a	Vehicle handling	AW G01	Mon 10am-12noon
2b	Industry Guest Speaker	AW G01	Tue 10am-12noon
2c	Tyres	AW G01	Wed 10am-12noon
2d	Brakes	AW 201	Thur 10am-12noon
3a	Ride and Vibration	AW G01	Mon 10am-12noon
3b	Suspension	AW G01	Tue 10am-12noon
3c	Vehicle Aerodynamics	AW G01	Wed 10am-12noon
3d	Revision	AW 201	Thur 10am-12noon



Appendix A: Engineers Australia (EA) Competencies

Stage 1 Competencies for Professional Engineers

	Program Intended Learning Outcomes
	PE1.1 Comprehensive, theory-based understanding of underpinning fundamentals
edge ase	PE1.2 Conceptual understanding of underpinning maths, analysis, statistics, computing
Knowledge Skill Base	PE1.3 In-depth understanding of specialist bodies of knowledge
PE1: and	

Course Outline: ENGG3002