



COURSE DETAILS	
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Units of Credit	6
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## **OBJECTIVES**

List the objectives of the course.

Link the objectives with the program outcome attributes and the assessment strategies for this course. In other words, how do the assessment strategies assist in achieving these objectives, and how do the objectives contribute to achievement of program outcome attributes?

Course Learning Outcome (CLOs)		EA Stage 1 Competencies
1.		<i>PE1.1, PE1.3, PE1.5</i>
2.		<i>PE1.3, PE1.2, PE1.4, PE1.5, PE2.3</i>
3.		<i>PE1.3, PE1.6, PE2.3, PE2.4</i>

<b>COURSE PROGRAM</b>
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A table of lectures and workshops or practical class topics for each week, indicating the name of lecturer involved (where multiple lecturers teaching in course), online activities, such as discussion forums, and relevant readings from textbook and other reference material identified for the course.

Date	Topic	Lecture Content	Demonstration Content
14/09/2020			

(Week 4)	<b>Lecture 1b:</b> Human Factors in Traffic Engineering 2 (Guest Lecturer)	Road Trauma; Crash Types; Road Users; Contributing Factors	
	<b>Lecture 2:</b> Human Performance Limitations and Traffic Engineering 1	Vision and Driving	
12/10/2020 (Week 5)	<b>Lecture 1a:</b> Human Performance Limitations and Traffic Engineering 2	Perception; Expectancy	Week 5 Workshop: Self Explaining Roads
	<b>Lecture 1b:</b> Human Performance Limitations and Traffic Engineering 3	Memory; Decision Making	
	<b>Lecture 2:</b> Human Performance Limitations and Traffic Engineering 4	Self-Explaining Roads; Reaction Time	
19/10/2020 (Week 6)	<b><i>Flexibility week for all courses (non-teaching)</i></b>		
26/10/2020 (Week 7)	<b>Lecture 1a and 1b:</b> AT2 - Mid Session Exam		Week 7 Workshop: Behavioural Adaptation Hackathon
	<b>Lecture 2:</b> Human Information Needs	Delineation; Behavioural Adaption	
02/11/2020 (Week 8)	<b>Lecture 1a:</b> Human Performance Vulnerabilities and Traffic Engineering	Driver Distraction; Driver Fatigue	Week 8 Workshop:

## **ASSESSMENT**

Details of each assessment component, the marks assigned to it, the criteria by which marks will be

detailed assessment guides will be made available in the weeks indicated. Students who perform poorly in the AT1 are recommended to discuss progress with the lecturer during the term.

The final grade for this course will normally be based on the sum of the scores from each of the assessment tasks. However, the lecturer reserves the right to adjust the final scores by scaling if agreed by the Head of School.

Where a student is unable to attend any exam, special permission will need to be obtained from the University and approved by the course coordinator, in order to make alternative arrangements.

## **PENALTIES**

Late work



the crash problem.

## RELEVANT RESOURCES

**E-books available via UNSW Library**

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## Appendix A: Engineers Australia (EA) Competencies

### Stage 1 Competencies for Professional Engineers

	<b>Program Intended Learning Outcomes</b>
<b>PE1: Knowledge and Skill Base</b>	PE1.1 Comprehensive, theory-based understanding of underpinning fundamentals
	PE1.2 Conceptual understanding of underpinning maths, analysis, statistics, computing
	PE1.3 In-depth understanding of specialist bodies of knowledge
	PE1.4 Discernment of knowledge development and research directions
	PE1.5 Knowledge of engineering design practice
	PE1.6 Understanding of scope, principles, norms, accountabilities of sustainable engineering practice
<b>PE2: Engineering Application Ability</b>	PE2.1 Application of established engineering methods to complex problem solving
	PE2.2 Fluent application of engineering techniques, tools and resources
	PE2.3 Application of systematic engineering synthesis and design processes
	PE2.4 Application of systematic approaches to the conduct and management of engineering projects
<b>PE3: Professional and Personal Attributes</b>	PE3.1 Ethical conduct and professional accountability
	PE3.2 Effective oral and written communication (professional and lay domains)
	PE3.3 Creative, innovative and pro-active demeanour
	PE3.4 Professional use and management of information
	PE3.5 Orderly management of self, and professional conduct
	PE3.6 Effective team membership and team leadership