

School of Civil and Environmental Environmen

COURSE DETAILS		
Units of Credit	6	
Contact hours	6 hours per week	
Class	Tuesday 9:00 – 11:00 (Wk 1-2, 4-10)	Ainsworth 202
Workshop	Thursday 11:00 – 12:00 (Wk 1-2, 4-10)	CE G1
Laboratory	Friday 11:00 – 14:00 (Wk 1-2, 4-7, 9-10)	CE 201
	Tuesday 11:00 – 14:00 (Wk 11)	CE 201
Course Coordinator	Samsung Lim	
and Lecturer	email: s.lim@unsw.edu.au	
	office: CE 411	
	phone x54505	

## INFORMATION ABOUT THE COURSE

See link to virtual handbook

https://www.handbook.unsw.edu.au/undergraduate/courses/2020/gmat3220

## OBJECTIVES

This course aims to provide the practical training that needs to be understood to work effectively and critically with GIS, and provides an environment that fosters the following attributes:

- the skills involved in scholarly enquiry: Significant data analysis skills
- an in-depth engagement with relevant disciplinary knowledge in its interdisciplinary context:
  Significant understanding coordinate systems and datums
- the capacity for analytical and critical thinking and for creative problem solving: Significant in the term project
- the ability to engage in independent and reflective learning: Some in the lab exercises

- the skills to locate, evaluate and use relevant information (Information Literacy): Some in preparing for the term project
- the capacity for enterprise, initiative and creativity:

GMAT3220 - Term 1 2020 - Course Profile Page 4 Reading these tables should aid your understanding of what the lecturer is looking for in your report in relation to the specific marking criteria. Table 1.

## ASSESSMENT OVERVIEW

## Appendix A: Engineers Australia (EA) Competencies

Stage 1 Competencies for Professional Engineers

		Program Intended Learning Outcomes
PE1: Knowledge and Skill Base		PE1.1 Comprehensive, theory-based understanding of underpinning fundamentals
		PE1.2 Conceptual understanding of underpinning maths, analysis, statistics, computing
	ll Base	PE1.3 In-depth understanding of specialist bodies of knowledge
	and Ski	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
PE2: Engineering Application Ability	¢	PE2.1 Application of established engineering methods to complex problem solving
	ilida no	PE2.2 Fluent application of engineering techniques, tools and resources
	plicatic	PE2.3 Application of systematic engineering synthesis and design processes
	Ap	PE2.4 Application of systematic approaches to the conduct and management of engineering projects
PE3: Professional and Personal Attributes		PE3.1 Ethical conduct and professional accountability
	utes	PE3.2 Effective oral and written communication (professional and lay domains)
		PE3.3 Creative, innovative and pro-active demeanour
	ersona	PE3.4 Professional use and management of information
	and F	PE3.5 Orderly management of self, and professional conduct
		PE3.6 Effective team membership and team leadership