



THE UNIVERSITY OF  
NEW SOUTH WALES  
SYDNEY · 2052 · AUSTRALIA

SCHOOL OF SURVEYING & SPATIAL INFORMATION SYSTEMS

## GMAT4450

# LAND MANAGEMENT & DEVELOPMENT PROJECT 2

### Course Outline – Session 2, 2009

Version: 14/7/2009

*This document, and other material, is available at the Course Website:  
<http://www.gmat.unsw.edu.au>*

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## 1. Staff involved in the Course and their Contact Details

**1.1 Lecturer:** Michael Green

Office: EE420

Email: michael.green@unsw.edu.au

Phone: 9385-4193

### 1.2 Staff absences during session:

Michael Green will be off campus from time to time. During that time he may be contacted by email at the above email address.

## 2. Educational Aspects of the Course

### 2.1 How this course relates to others in the program

Land Management & Development Project 2 carries on from the work completed in Project 1 and uses the material from the Civil Engineering servicing courses. The skills learnt in Cadastral Surveying and Survey Computations will assist together with the knowledge gained in the use of design software.

### 2.2 Aim of the Course

Students will learn to design urban roads and the drainage systems that accompany these roads. The topics covered in this course satisfy the educational requirements of the BOSSI for registration as a Surveyor.

### 2.3 Learning Outcomes

By the end of this session you should be able to complete the geometric design of urban roads and driveways and their drainage systems as well as the graphic presentations of shadows of structures.

### 2.4 Teaching Strategies

Material will be provided in a lecture and studio formats. Various handouts will be provided relevant to the topics covered.

### 2.5 Suggested Learning Methods

As well as revising lecture notes it is recommended that students obtain design standards and information from urban and rural Local Government web sites or offices.

### 2.6 UNSW Graduate Attributes

This course provides an environment that fosters in our students the following attributes is listed:

the skills involved in scholarly enquiry	Some
an in-depth engagement with relevant disciplinary knowledge in its interdisciplinary context	Significant
the capacity for analytical and critical thinking and for creative problem solving	Significant
the ability to engage in independent and reflective learning	Some
the skills to locate, evaluate and use relevant information (Information Literacy)	Some
the capacity for enterprise, initiative and creativity	Minimal
an appreciation of and respect for, diversity	Some
a capacity to contribute to, and work within, the international community	Minimal
the skills required for collaborative and multidisciplinary work	Some
an appreciation of, and a responsiveness to, change	Significant
a respect for ethical practice and social responsibility	Significant

### 3. Proposed Course Schedule

Some lectures/tutorials will be held in the School's Computer Laboratory.

Week No.	Tuesday 1 – 3pm Quad 1049
1	Review Lot Layout from previous session, Introduction to course, Site selections from S1 designs
2	Urban Road Design, Longitudinal & Cross-sections
3	Kerb Returns – Lecture and Tutorial Computer Lab
4	On-site detention & urban drainage Computer Lab
5	Computer Lab Tutorial Road design submission due
6	Stormwater design
7	Stormwater design
	Mid-session break
8	Stormwater design -
9	Stormwater design - Computer Lab Tutorial
10	Shadow Diagrams - Stormwater design submission due
11	Shadow Diagram submission due
12	Driveway Design
13	Driveway design submission due

## 4. Assessment in the Course

Assessment for the course includes:

Road Designs	45%	Due Week 5
Stormwater Designs	35%	Due Week 10
Shadow Diagrams	10%	Due Week 11
Driveway Designs	10%	Due Week 13

Road Designs and Stormwater Designs must be submitted by 1pm Tuesday in the week that they are due. Shadow Diagrams and Driveway Designs are done in the time allocated for the Course in weeks 11 and 13 and will be collected at the end of class time.

## 5. Course Resources

### 5.1 Lecture Material

Material will be provided during lectures and tutorials.

### 5.2 Text and Reference Books

Design standards available from Local Government offices or web sites.

AMCORD – Resource Document and Practice Notes.

### 5.3 Computational Aids

Civilcad road and drainage design software as well as spreadsheet software relevant to this course are available in the School's computer laboratory EE401.

## 6. Administrative Matters

### 6.1 Expected work load

At UNSW, the normal workload expectations of a student are 25-30 hours per session for each unit of credit, including class contact hours, preparation and time spent on all assessable work.

To assist students with the organisation of their studies, the expected workloads of the various components of the course are listed below. It is strongly suggested that students use the listed hours to plan their work during session.

Lectures & Studio (14 x 2hr)	28hr
Revision of Lectures, preparation of practical/tutorial reports, background reading (approximately 11hr x 11wk)	121hr
Total	149hr

### 6.2 Rules

Students should read the University Calendar or Student Guide for details of University Rules and special considerations.

Students are reminded that the University regards academic misconduct as a very serious matter. Unauthorised material must not be taken into a test or examination. Any work submitted for assessment must be entirely the student's own work. The penalty for any suspected academic misconduct ranges from zero mark for the assignment or exam involved, through failure of the subject, to expulsion from the University. If absent from an examination, class test or practical, students must submit written documentation to the University, via the Student Centre in the Chancellery.

All assignments or practical reports are compulsory parts of the course and must be handed in by the due date. **The marks for late submissions will be reduced as follows:** -20% (of the maximum mark) for up to 24 hours after the scheduled submission time, then -10% (of the maximum mark) for each additional 24 hour period late. (For example, a student submitting a report/assignment 4 days late has his/her mark reduced by 4 if the maximum mark of the submission is 10.). Any late submission must be made before solutions are issued to the class.

If a student is unable to submit on time due to illness or other legitimate reason, then a brief written explanation must be given to the lecturer for consideration as soon as is feasible. In some cases the lecturer may grant an extension to the submission date provided he has been contacted before the due date.

Further assessment may be granted in this course at the lecturer's discretion. If further assessment is granted then performance in tutorials may be considered as well as an oral exam including use of a computer.

If students attend less than 80% of their possible classes they may be refused final assessment.

### 6.3 Grievances

In the first instance all grievances should be discussed with the lecturer involved. If the problem cannot be resolved, students should contact the School's Grievance Officer in writing.