



THE UNIVERSITY OF
NEW SOUTH WALES
SYDNEY · 2052 · AUSTRALIA

SCHOOL OF SURVEYING & SPATIAL INFORMATION SYSTEMS

GMAT4400

LAND MANAGEMENT & DEVELOPMENT PROJECT 1

Course Outline Session 1 2009

Version: February 2009

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

(User name and password supplied in class)

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1. Staff involved in the Course and their Contact Details

1.1 Lecturer(s): Mr M Green

Office: EE 420
Email: michael.green@unsw.edu.au Phone: 9385-4193

1.2 Computing Supervisor Dr Y Zhou

Office: EE 407
Email: y.zhou@unsw.edu.au Phone: 9385-5252

1.3 Staff absences during session:

Mr M Green may be off campus from time to time. Contact by email will always be available.

2. Educational Aspects of the Course

2.1 How this course relates to others in the program

This course puts into practice the procedures and processes covered in GMAT4410 Land Subdivision and Development linking these with the environmental considerations from GMAT1400 Land Studies and GMAT4850 Sustainability in Surveying and SIS. A good understanding of terrain modelling together with title systems from GMAT3420 Cadastral Surveying and Land Law and road design from GMAT2500 Survey Computations & CAD.

2.2 Aim of the Course

To design a residential neighbourhood development commencing with a green field site analysis and a Structure Plan design. The design process continues with a plan of a detailed lot layout.

2.3 Learning Outcomes

By the end of this session a competent student will be able to assess an undeveloped parcel of land to determine its suitability for urban development and design a development based on planning and environmental factors.

2.4 Teaching Strategies

A lecture will be given in most weeks on a different topic. The lectures are linked to tutorials or studio workshops where students continue their learning by applying the lecture material to their analysis and designs.

2.5 Suggested Learning Methods

A continual level of research and plan development is required to appreciate the impact of various environmental and design factors on the project. Use of the recommended references is extremely beneficial. The course requires a considerable amount of student input outside of the lecture/tutorial environment. See Section 6.1 – Expected work load.

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	Significant
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	Significant
the skills to locate, evaluate and use relevant information (Information Literacy)	Significant
the capacity for enterprise, initiative and creativity	Significant
an appreciation of and respect for diversity	Significant
a capacity to contribute to, and work within, the international community	Minimal
the skills required for collaborative and multidisciplinary work	Significant
an appreciation of, and a responsiveness to, change	Some
a respect for ethical practice and social responsibility	Significant

3. Proposed Course Schedule

All lectures or Tutorials are scheduled for Tuesday, 4 – 6pm in Quad G031

Week No.	Lecture	Studio Or Tutorial	Submission Due
1	Introduction & site selection	Site Selection	
2	Subject & Analysis Maps	Information Inspection	
3	Hazards in the urban environment	Plan Preparation (PP)	
4	Road Hierarchy & Traffic Engineering	PP and Progress Inspection	
5	Structure Plans - Data & approach		Site Analysis Submission
	Mid-session Break		
6	Solar access & wind funneling	PP	
7	Roads, lot access & Engineering Aspects		
8	Computer Lab		Structure Plan Submission
9	Lot Layout - specifications	PP and Progress Inspection	
10	In-fill subdivisions		
11	Project Specifications	PP	
12	Revision		Lot Layout Submission

4. Assessment in the Course

The subject has three major submissions in this session:

- 1 Site Analysis
- 2 Structure Plan
- 3 Lot Layout

Submission dates are final. Assessment will be 30% each for the major submissions and 10% for weekly progress inspections, studio involvement or random quizzes. You will be given a grade A, B etc on each occasion rather than a percentage mark for each submission.

Studio and Submissions

Each student will be a member of a group of 3 to 4 students. Groups will be finalised during the first lecture. Students are free to select their partners. However students are advised to select their partners very carefully. Obtain the address, phone number, mobile phone number, fax number, e-mail address, etc of your group members immediately after the formation of the group. The joint submissions require considerable interaction between the students.

The first two major submissions are group submissions while the third, the Lot Layout, will be an individual submission.

Further information about the practicals will be distributed during the lectures, and may be available on the class web site. Rules for submissions are given in section 6 and 7 below.

5. Course Resources

5.1 Lecture Material

Material will be delivered by a lecturer each week followed by tutorial work in a studio environment focussed on the lecture material. Students are encouraged to discuss their projects.

5.2 Text and Reference Books

AMCORD – A National Resource Document for Residential Development
AMCORD - Practice Notes

National Guidelines to Urban Development (available in the UNSW library only)

Various Local Government Web-sites

5.3 Computational Aids

Computer software relevant to this course is available in the School's computer lab EE401.

Civilcad is loaded onto the School's computers however there is no restriction on students who may wish to use their own software. Students should make themselves aware of the complications that may occur including where different group members use different software or when hardcopies of plans are required.

Students will also be required to have data available for inspections by the lecturer from time to time.

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 (14x1hr)	14hr
Tutorials (14x1hr)	14hr
Submissions (3)	75hr
Revision of Lectures, preparation of plans, background reading (approximately 4hr x 14wk)	56hr
Total	159hr

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, 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 or part period late. (For example, a student submitting a report/assignment 3.5 days late has their mark reduced by 5 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.

7. Submissions

All sets of plans will be professionally presented in hardcopy version with a title block showing the details of the information on each sheet, scale etc and group members/individual responsible.

Although the first two of the major submissions will be presented as a group exercise, each sheet of each submission will be the responsibility of a member of the group. Hence although a group mark will be issued, the input of each individual in the group is assessable and so the name of the student preparing each sheet must be identified in the title block of that sheet.

The last of the major submissions is entirely an individual submission.

Innovation within the limits of logical design criteria will be rewarded.

Additional information on assignments will be issued during lectures and tutorials.