



The University of Sydney

GEOG5001

Geographic Information Science A

Lecturers: Dr David M Chapman
School of Geosciences
Room 403
Madsen Building (F09)
University of Sydney
Phone: +61 2 9351 3364
Fax: +61 2 9031 0184
Email: dmc@usyd.edu.au

Classes

Each session consists of a lecture plus practical work on the same topic. Sessions are of minimum five hours duration.

Synopsis

The course is a unit of study specifically designed for post-graduates who have no GIS qualifications or need a refresher. The Unit covers map making, data interrogation in GIS, fundamental GIS operations, application of GIS to typical land management problems, GIS as an aid to decision-making, and modelling in GIS.

Assessment

Assessment will be by means of project work, which will be based on the course content: there will be no formal written examination. Each student will be required to keep a log-book, which must be presented for assessment along with the completed project. Performance in class will be taken into account.

Lecture Outline

Week 1	Introduction to Geographic Information Science
Week 2	Data acquisition, entry, and display in GIS
Week 3	Data analysis in GIS
Week 4	Modelling in GIS
Week 5	GIS and land management
Week 6	GIS and environmental decision making

Practical Outline

Week 1	Introduction to Geographic Information Science
Week 2	Data acquisition, entry, and display in GIS
Week 3	Data analysis in GIS
Week 4	Modelling in GIS
Week 5	GIS and land management
Week 6	GIS and environmental decision making

Required Texts/Reading List

A comprehensive laboratory manual will be supplied to each student, as will a selection of helpful readings.