

Course Outline 2016
PROPERTY 773: GIS and Property Analysis (15 POINTS)
Semester 2 (1165)

Course Prescription

The increasing availability of geographically referenced property data offers significant potential for property research and modelling. Covers fundamentals of Geographic Information Systems (GIS) (concepts, principles and functions) and essential skills for applying GIS to solve real-world property problems.

Goals of the Course

To acquire an understanding of basic cartography, GIS software, and local spatial data sources, and to be able to produce informative thematic maps for academic and professional research.

Learning Outcomes

By the end of the course it is expected that the student will be able to:

1. understand the fundamentals of GIS;
2. understand how to use SPSS for analysing and converting spatial data for use in a GIS;
3. demonstrate an understanding of common GIS spatial analysis techniques; and
4. produce informative thematic maps.

Content Outline

- Week 1 - Introduction to GIS (ONLINE) (22/7)
- Week 2 - Spatial data sources (ONLINE) (29/7)
- Week 3 - GIS software package (ONLINE) (5/8)
- Week 4 - Face-to-face review session (OGGB, Room 520) (12/8)
- Week 5 - GIS spatial analysis techniques (ONLINE) (19/8)
- Week 6 - Producing thematic maps (ONLINE) (26/8)
- MID-SEMESTER BREAK*
- Week 7 - In-class test on GIS fundamentals (OGGB, Room 520) (16/9)
- Week 8 - Assignment (independent study) (23/9)
- Week 9 - Assignment (independent study) (30/9)
- Week 10 - Face-to-face review session (OGGB, Room 520) (7/10)
- Week 11 - Face-to-face review session (OGGB, Room 520) (14/10)
- Week 12 - Student presentations (OGGB, Room 520) (21/10)

Teaching Staff

Lecturer:

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Learning Resources

Presentations and readings will be posted onto CECIL along with datasets which are not readily available online. Announcements will be made often and students are responsible for checking Cecil regularly.

Assessment

The course is 100 percent internal coursework with no examination. The coursework is comprised of an in-class essay test, thematic map assignment and an in-class presentation explaining your methodology and findings regarding a hypothetical site-selection consulting assignment.

Assessment	Weighting	Due Date
In-class test on GIS fundamentals	30%	Fri, Sept 16 th
Thematic map assignment (A3 poster)	20%	Fri, Oct 21 st
Individual presentation (PowerPoint slides)	30%	Fri, Oct 21 st
In-class individual presentation (30 minutes each)	20%	Fri, Oct 21 st

Learning Outcome	Test	Thematic Map	Presentation
1	•	•	•
2	•	•	•
3	•	•	•
4		•	•