Course Outline 2019
PROPERTY 773: GIS and Property Analysis (15 POINTS)

Semester 2

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 - In-class intro (OGGB, Rm 213) (26/7)
- Week 2 - Introduction to GIS & Spatial data sources (ONLINE) (2/8)
- Week 3 - GIS software package (ONLINE) (9/8)
- Week 4 - Face-to-face review session (OGGB, Rm 213) (16/8)
- Week 5 - GIS spatial analysis techniques (ONLINE) (23/8)
- Week 6 - Producing thematic maps (ONLINE) (30/8)
  MID-SEMESTER BREAK
- Week 7 - In-class test on GIS fundamentals (OGGB, Rm 213) (20/9)
- Week 8 - Assignment (independent study) (27/9)
- Week 9 - Assignment (independent study) (4/10)
- Week 10 - Assignment (independent study) (11/10)
- Week 11 - Face-to-face review session (OGGB, Rm 213) (18/10)
- Week 12 - Student presentations (OGGB, Rm 213) (25/10)
Teaching Staff
Lecturer:
Dr Michael Rehm
Office: 526, Owen G Glenn Building
Tel: (09) 923-8677
Email: m.rehm@auckland.ac.nz

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

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<thead>
<tr>
<th>Assessment</th>
<th>Weighting</th>
<th>Due Date</th>
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<tbody>
<tr>
<td>In-class test on GIS fundamentals</td>
<td>30%</td>
<td>Fri, Sept 20th</td>
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<tr>
<td>Thematic map assignment (A3 poster)</td>
<td>20%</td>
<td>Fri, Oct 25th</td>
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<tr>
<td>Individual presentation (PowerPoint slides)</td>
<td>30%</td>
<td>Fri, Oct 25th</td>
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<tr>
<td>In-class individual presentation (30 minutes each)</td>
<td>20%</td>
<td>Fri, Oct 25th</td>
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<tr>
<th>Learning Outcome</th>
<th>Test</th>
<th>Thematic Map</th>
<th>Presentation</th>
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