Course Outline 2018
PROPERTY 773: GIS and Property Analysis (15 POINTS)
Semester 2 (1185)

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) (17/7) + In-class intro (OGGB, Rm 205) (18/7)
Week 2   Spatial data sources (ONLINE) (24/7)
Week 3   GIS software package (ONLINE) (31/7)
Week 4   Face-to-face review session (OGGB, Room 520) (7/8)
Week 5   GIS spatial analysis techniques (ONLINE) (14/8)
Week 6   Producing thematic maps (ONLINE) (21/8)
MID-SEMESTER BREAK
Week 7   In-class test on GIS fundamentals (OGGB, Room 520) (11/9)
Week 8   Assignment (independent study) (18/9)
Week 9   Assignment (independent study) (25/9)
Week 10  Face-to-face review session (OGGB, Room 520) (2/10)
Week 11  Face-to-face review session (OGGB, Room 520) (9/10)
Week 12  Student presentations (OGGB, Room 520) (16/10)
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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<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>Tues, Sept 11th</td>
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<tr>
<td>Thematic map assignment (A3 poster)</td>
<td>20%</td>
<td>Tues, Oct 16th</td>
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<tr>
<td>Individual presentation (PowerPoint slides)</td>
<td>30%</td>
<td>Tues, Oct 16th</td>
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<tr>
<td>In-class individual presentation (30 minutes each)</td>
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<tr>
<th>Learning Outcome</th>
<th>Test</th>
<th>Thematic Map</th>
<th>Presentation</th>
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