

GEOG 172: Winter 2007

Intermediate Geographical Data Analysis (5 units)

Lectures: *Tuesdays & Thursdays 12:30-1:45pm, Ellison Hall 2620*

Lab: *Mondays 2:00pm-5:50pm, Ellison Hall 2610 (2 sessions)*

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Audience & Prerequisites

Students in Geography, Geology, Ecology, Environmental Studies

Prerequisites: Pstat5 or equivalent and consent of instructor

Tentative Schedule

Week	Dates	Topics	Readings
1	01/09 – 01/11	Spatial Data Analysis Overview	Handouts / ch.1-2
2	01/16 – 01/18	Review of Statistical Concepts	Handouts
3	01/23 – 01/25	Spatial Processes	O'S&U ch.3
4	01/30 - 02/01	Point-Pattern Analysis	O'S&U ch.4
5	02/06 – 02/08	Review and Midterm	-
6	02/13 – 02/15	Analysis of Spatial Fields	O'S&U ch.8
7	02/20 – 02/22	Statistics of Spatial Fields	O'S&U ch.9
8	02/27 – 03/01	Analysis of Spatial Objects	O'S&U ch.7
9	03/06 – 03/08	Analysis of Multivariate Spatial Data	O'S&U ch.11
10	03/13 – 03/15	Review	-
11	03/20 12-3pm	Final exam	-

Textbook

Required: *Geographic Information Analysis:* O'Sullivan & Unwin (2003)

Handouts will be distributed in class, and over the Web at: <http://www.geog.ucsb.edu/~phaedon/classes>

Logistics

Course grade breakdown: Midterm (25%), final (25%), lab projects (50%)

Late submission penalty: 5% of total grade of each Lab project per late day

The first two Lab sessions will introduce MATLAB and its Statistics Toolbox