CEL 9013: Spatial Analysis and Modeling

1. Instructor

XiaoHang Liu, Ph.D. Department of Geography & Environment

Tel: 415-338-7509 Email: <u>xhliu@sfsu.edu</u>

2. Description

The objective of this course is to familiarize students with concepts and functions available vector-based spatial analysis to analyze and manipulate spatial data. Topics include selection and query, proximity analysis, overlay analysis, model builder, and other geoprocessing functions. Class format: approximately 50% lecture, 50% lab exercises.

3. Schedule

Friday

8:30 – 9:00	Introduction
9:00 - 10:00	Lecture 1: Selection and Query
10:00 – 11:30	Lab1
11:30 – 12:00	Lecture 2: Spatial Operators
12:00 – 1:00	Lunch Break
1:00 – 2:30	Lab 2
2:30 - 3:30	Lecture 3: Proximity Analysis
3:30 - 5:30	Lab3

Saturday

8:30 – 10:00	Lecture 4: Overlay
10:00 - 11:30	Lab4
11:30 – 12:30	Lecture 5: Other Tools

12:30 – 1:30 Lunch Break

1:30 – 3:00 Lab 5

3:00 – 4:00 Lecture 6: Modelling

4:00 – 5:00 Lab6

5:00 - 5:30 Course wrap up