GISC7360 - GIS Pattern Analysis

GISC 7360 GIS Pattern Analysis (3 semester credit hours) Examines transformations among geospatial object classes, topological measures, edge effects, univariate and multivariate methods for point pattern analysis, directional data, geo-statistical surface interpolations, and spatial regression models. Underlying models and data generating processes leading to spatial heterogeneity and spatially clustered/dispersed patterns are discussed and simulated. Examples of local and global spatial analyses of crime, disease, real estate or environmental patterns are discussed. Prerequisites: (GEOS 6381 or GISC 6381) and (GISC 6301 or equivalent). (3-0) R