GISC7360 - GIS Pattern Analysis

[GISC 7360](#) GIS Pattern Analysis (3 semester credit hours) Examines tranformations 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