

# GISC6375 - Spatial Optimization

[GISC 6375](#) Spatial Optimization (3 semester credit hours) Provides an understanding of applied mathematical and computational techniques used in optimization problems that have a strong spatial component. Students will learn the basics of problem formulation and various solution strategies, both exact (e.g., linear and nonlinear programming) and heuristic (e.g., genetic programming). Students will gain hands-on experience linking GIS and other software systems to solve these sorts of problems. At the conclusion of this class students will be able to formulate and solve a variety of spatial optimization problems that are beyond the capabilities of any single off-the-shelf software system. (3-0) Y