THE OHIO STATE UNIVERSITY

COLLEGE OF ENGINEERING

Geospatial Numerical Analysis

CIVILEN 5461

Credit Hours:
4.00 - 4.00

Course Levels:
Undergraduate (1000-5000 level)
Graduate (5000-8000 level)

Course Components:
Lecture
Lab

Course Description:
Application of adjustment techniques to geo-spatial information including but not limited to GPS, Photogrammetry GIS and remote sensing.

Prerequisites and Co-requisites:
Prereq: 2410 (400), or Grad standing.

Course Goals / Objectives:
- Application of numerical analysis and adjustment techniques to geo-spatial information

Course Topics:
- a-posteriori variances
- representation of residuals
- condition equations
- prior information
- classification of errors
- measures of dispersion
- statistical tests
- applications to geo=spatial data

Designation:
Elective