

GIS Workshop (Social Sciences)*

***Space is limited and thus registration is required, please contact c-maene@northwestern.edu**

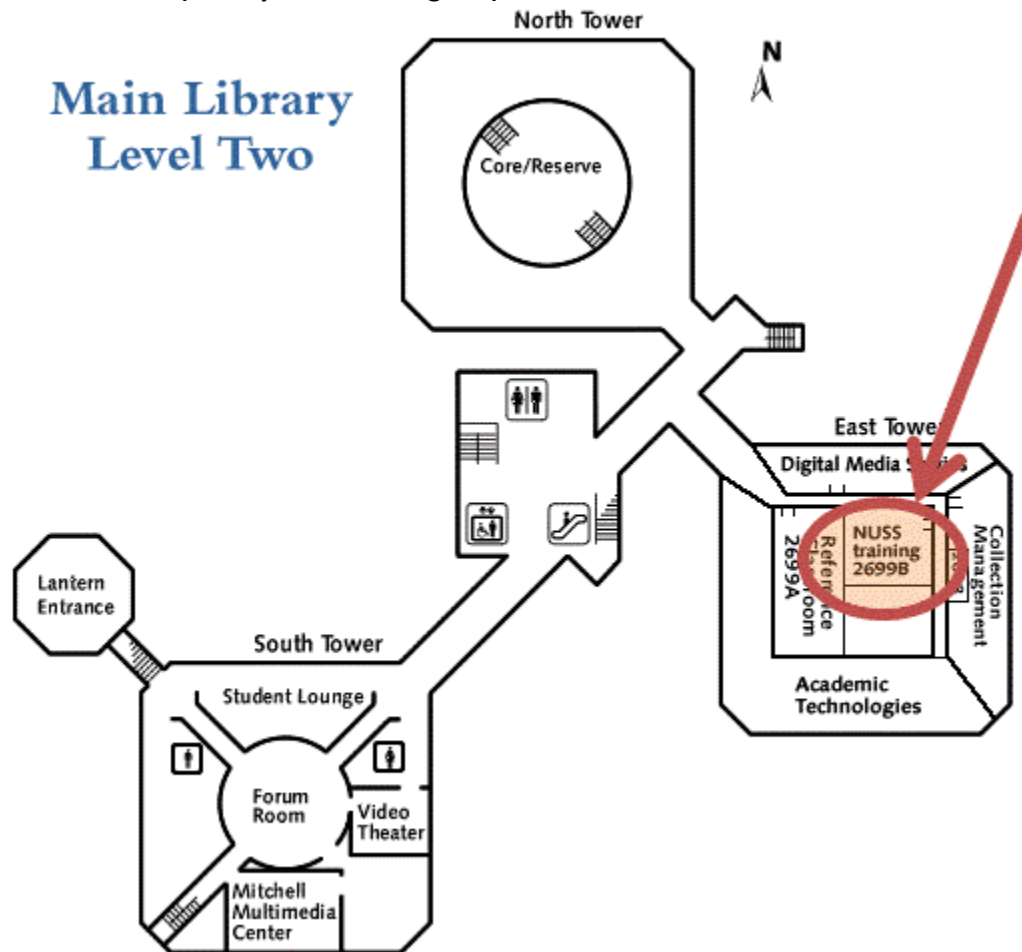
Dates: Friday, May 8 (9:00am-4:00pm) & Saturday, May 9 (9:00am-4:00pm)

Location: Northwestern University Library

1970 Campus Drive, Evanston, 60208

<http://aquavite.northwestern.edu/maps/buildinglookup.cgi?lookupid=123>

Room# 2699B (Library Staff Training Lab)



Contact: Chieko Maene
Maps & State Documents Librarian
Government & Geographic Information and Data Services Department
University Library
(847) 491-3130
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Software: ArcGIS 9.3 with extensions (Spatial, 3D & Geostatistical Analysts)

Outline: (On the back)

Day 1: May 8, 2009 (Friday)

- 9:00 Welcome
- 9:10 Presentation: What is GIS
- 9:30 Basic GIS & Map Concepts
 - Exercise 1: ArcCatalog
 - Exercise 2: ArcMap
 - Exercise 3: Georeferencing image
- 11:30 Lunch (not provided)
- 12:45 Basic GIS & Mapping Concepts (cont.)
 - Exercise 4: Geocoding addresses & Adding XY/Geog. Coordinates data
 - Exercise 5: Geocoding variation – place geocoding
 - Exercise 6: Map projections
- 2:15 Break
- 2:30 Basic GIS & Mapping Concepts (cont.)
 - Exercise 7: Create new shapefiles
 - Exercise 8: Layout (cartography basics)
 - Exercise 9: Selection & geoprocessing (Introduction to ArcToolbox)
- 4:00 Adjourn

Day 2: May 9, 2009 (Saturday)

- 9:00 Welcome
- 9:10 Advanced GIS analysis
 - Exercise 10: Thematic mapping
 - Exercise 11: Raster 2: Hotspots analysis (density analysis)
- 11:30 Lunch (not provided)
- 12:45 Advanced GIS analysis (cont.)
 - Exercise 12: Statistics in Space – Ecological analysis
 - Exercise 13: Statistics in Space – Spatial statistics tools
 - Exercise 14: Statistics in Space – Proximity analysis
- 2:45 Break
- 3:00 Advanced GIS analysis (cont.)
 - Exercise 15: Introduction to Geodatabase, ModelBuilder and Python scripts
- 3:30 Geospatial data sources and library GIS resources
- 4:00 Adjourn