



Advanced Topic GIS Workshops using Spatial Analyst

Co-occurrence & Habitat Mapping

June 9th, 2008 - 9am to 4pm

Harris Center, Hancock, NH

October 24, 2008 - 9am to 4pm

UNH, Durham, NH

Software used:

ArcGIS 9.2, Spatial Analyst

Habitat Priority Planner, Landscape Frag Tool

Topics covered:

simple & weighted co-occurrence,
habitat fragmentation, habitat prioritization

\$150 standard, \$110 reduced

Skill level: Advanced Topics

This course covers the use of co-occurrence analysis for compositing a variety of data layers to make important natural resource and societal decisions. This workshop will also cover a variety of techniques for mapping and analyzing habitat types, including the Landscape Fragmentation tool developed at University of Connecticut and the Habitat Priority Planner developed by the NOAA Coastal Services Center. Will focus on land cover, conservation lands, conservation priority areas and the NH Wildlife Action Plan.

Participants will learn to:

conduct simple and weighted co-occurrence analyses, make decisions about choosing layers and setting weighting factors, determine fragmentation patterns of habitats, prioritize areas based on internal and external features, do spatial analysis NH WAP data

Watershed Analysis

October 8th, 2008 - 9am to 4pm

NH Fish & Game, Concord, NH

Software used:

ArcGIS 9.2, Spatial Analyst, ArcHydro

Topics covered:

raster manipulation, watershed delineation
buffer analysis, change analysis

\$150 standard, \$110 reduced

Skill level: Advanced Topics

This course is designed for natural resource professionals, planners, and volunteers, others who work at a regional or watershed level. Participants will learn how to use the ArcGIS Spatial Analyst extension to display and manipulate data such as the NH Land Cover, impervious surfaces, and Digital Elevation Models (DEMs) for watershed issues.

Participants will learn to:

manipulate raster data using Spatial Analyst, delineate watershed using ArcHydro and digital elevation models, use the National Hydrography Dataset, evaluate watershed condition using land cover data, work with impervious surface data to estimate land use change over time

Getting to Know Model Builder

November 5th, 2008 - 9am to 4pm

NH Fish & Game, Concord, NH

Software used:

ArcGIS 9.2, Spatial Analyst, ModelBuilder

Topics covered:

automation, creating, using and sharing models

\$150 standard, \$110 reduced

Skill level: Advanced Topics

ModelBuilder is a powerful tool that provides much of the flexibility of a programming language without requiring any familiarity with programming. This course introduces ArcGIS users to ModelBuilder basics: how it works, how models can be created, edited and used to automate repetitive tasks or to run complex analyses.

Participants will learn to:

use ModelBuilder to create and edit simple models, add data and connect geoprocessing tasks to input/output datasets, automate geoprocessing workflows, design sharable models

SPACE IS LIMITED - REGISTER EARLY

Registration info: Sharon at sharon.hughes@unh.edu or 603.862.1029

Register online: go to link <http://extension.unh.edu/GISGPS/GISGPS.htm> and click on "Register Now!", or look at What's New box in right pane

For info on course content: Shane at sbradt@ceunh.unh.edu or 603.862.4277

Full payment is required to reserve a space.

Note: If you have special needs that need accommodation, please contact us 3 weeks in advance of the program date. UNHCE is an equal opportunity educator and employer. University of New Hampshire, U.S. Department of Agriculture, and NH counties collaborating.

