

GIS/GPS Boot Camp 2012

Co-Sponsors: UNH Cooperative Extension, NH GRANIT
Location: NH Sea Grant Extension Offices, 122 Mast Road, Lee, NH
Dates & Times: June 16th to 20th – 8:30am-4pm
Instructor: Shane Bradt, Extension Specialist in Geospatial Technologies
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CEU's: 30 contact hours

Workshop Schedule:

Day 1 Monday June 16th: **GIS Basics, Intro to ArcGIS**

8:30-9:00 **Course Introduction**
9:30-9:50 **Getting to Know GIS**
9:50-10:30 **ArcGIS Activity**
Exercise 1: Tour of ArcMap
10:30-10:45 BREAK
10:45-12:00 **ArcGIS Activities**
Exercise 2: Attribute Tables
Exercise 3: Selecting Features
12:00-1:00 LUNCH
1:00-2:30 **ArcGIS Activities**
Exercise 4: Thematic Maps
Exercise 5: Layers
2:30-2:45 BREAK
2:45-3:45 **ArcGIS Activity**
Exercise 6: Labels
3:45-4:00 **Wrap up, Questions**

Day 2 Tuesday, June 17th: **ArcGIS Skills**

- 8:30-8:45 **Review of day 1, overview of today**
- 8:45-9:15 **Discussion of GIS applications**
- 9:15-10:30 **ArcGIS Activities**
 - Exercise 7: Layout View
 - Exercise 8: Joining Tables
- 10:30-10:45 BREAK
- 10:45-12:00 **ArcGIS Activity**
 - Exercise 9: ArcCatalog
- 12:00-1:00 LUNCH
- 1:00-2:30 **ArcGIS Activity**
 - Exercise 10: GeoProcessing
- 2:30-2:45 BREAK
- 2:45-3:45 **ArcGIS Activity**
 - Exercise 12: Developing New Data
- 3:45-4:00 **Wrap up, Questions**

Day 3 Wednesday, June 18th: **GIS Data & Mini-project**

- 8:30-8:45 **Review of day 2, overview of today**
- 8:45-9:15 **Presentation: GIS data types, State sources of GIS data**
- 9:15-10:00 **NH GRANIT – New Hampshire’s GIS clearinghouse**
- 10:00-10:15 BREAK
- 10:15-10:45 **Presentation: Local GIS data sources, GIS data management**
- 10:45-11:00 **Presentation: Overview of mini-projects**
- 11:00-12:00 LUNCH
- 12:00-2:15 **ArcGIS Activity**
 - Mini-project work / Additional exercises
- 2:15-2:30 BREAK
- 2:30-3:45 **ArcGIS Activity**
 - Mini-project work / Additional exercises
- 3:45-4:00 **Wrap up, Questions**

Day 4 Thursday, June 19th: **Global Positioning System**

- 8:30-8:45 **Introduction & overview of day**
- 8:45-9:15 **Presentation: GPS technology overview**
- 9:15-10:00 **Field Activity: GPS waypoint collection**
- 10:00-10:15 **BREAK**
- 10:15-10:30 **Presentation: GPS accuracy**
- 10:30-10:35 **Presentation: GPS hunt**
- 10:35-11:30 **Field Activity: GPS navigation and hunt**
- 11:30-12:30 **LUNCH**
- 12:30-1:15 **Presentation: Field data collection (points, lines, pictures)**
- 1:15-2:15 **Field Activity: GPS and/or digital image collection**
- 2:15-2:30 **Presentation: GPS data and image downloading**
- 2:30-3:45 **Computer Activity**
- Exercise: Putting your points and lines on a map
 - Exercise: Joining pictures to points to make interactive maps
- 3:15-4:00 **Wrap up and questions on GPS**

Day 5 Friday, June 20th: **Sharing maps & Free GIS software**

- 8:30-8:45 **Review of Day 4 of the day, overview of today**
- 8:45-9:15 **Presentation: Options for sharing maps**
- 9:15-10:00 **GIS Activity**
- Exercise: Using Google Earth to create custom GIS maps
- 10:00-10:15 **BREAK**
- 10:15-11:00 **GIS Activity**
- Exercise: Sharing maps online using Google Maps
- 11:00-12:00 **GIS Activity**
- Exercise: Creating online maps using ArcGIS Online
- 12:00-1:00 **LUNCH**
- 1:00-1:30 **Presentation: Free GIS Programs**
- 1:30-2:30 **GIS Activity**
- Exercise: Test drive of free GIS programs
- 2:30-2:45 **BREAK**
- 2:45-4:00 **Wrap-up, final participant questions, weekly evaluation**