

2007 NW UC Courses and Descriptions

Course Name	Date(s)	# of days / hrs. Cost	Instructor / Organization / Contact
Powering Your GeoDatabase and ModelBuilder for Management / Analysis	Sep. 10/11	2 days \$595	Bruce Kessler Kessler GIS www.kesslergis.com bruce@kesslergis.com
Learning GIS Using ArcGIS	Sep. 10/11	2 days \$595	Ken Juengling GTC, Inc. www.gtcgis.com kjuengling@gtcgis.com
Essentials for Editing and Analysis	Sep. 10/11	2 days \$595	Cheryl Wilder KCGIS www.metrokc.gov Cheryl.Wilder@METROKC.GOV
Using ArcGIS Spatial Analyst	Sep. 10/11	2 days \$595	John Schaeffer Juniper GIS www.junipergis.com john@junipergis.com
Cartography with ArcGIS (3 day class paired down to 2 days for the conference)	Sep. 10/11	2 days \$595	Eric Gillett ESRI www.esri.com egillett@esri.com
Introduction to Geoprocessing Scripts using Python	Sep. 10/11	2 days \$595	Alan Coyle ESRI www.esri.com acoyle@esri.com
Evening Classes			
Understanding and Working with Projections and Transformations in ArcGIS	Sep. 10	1.5 hrs. in evening Free	John Schaeffer Juniper GIS www.junipergis.com john@junipergis.com
GPS Basics: Collecting Local Data and Incorporating it into GIS Projects	Sep. 10	3.5 hrs in evening \$300 (includes a new GPS unit)	Ken Juengling GTC, Inc. www.gtcgis.com kjuengling@gtcgis.com
Metadata: Creation, Posting, Maintenance, and Best Practices	Sep. 10	3.5 hrs in evening \$100	Mike Leathers KCGIS www.metrokc.gov Cheryl.Wilder@METROKC.GOV

Powering Your GeoDatabase and ModelBuilder for Management / Analysis

Bruce Kessler: Kessler GIS – 2 days

Full description:

<http://www.kesslergis.com/coursedescriptions.htm#Powerful%20GeoDatabases%20and%20the%20ModelBuilder>

Are you still fuzzy on GeoDatabase and topology? This class gets you into the center mass of GeoDatabases in version 9.2 using an uncluttered and systematic approach -- a powerful building of simple and powerful GeoDatabases under a File GeoDatabase (excluding enterprise GeoDatabases). This course starts with a thorough review of objects within a GeoDatabase and the different types of GeoDatabases, then moves deeper. Many users need a strong basis in using the GeoDatabase for daily activities that don't require elaborate designs. Students learn how work with every day topology applications through creation of rules, investigation of specific changes in the data due to validation, work with editing tasks for management issues such as coincidence, and learn how to manage some confusing topology errors. This class uses natural resources and urban data so concepts can be easily be transferred to other types of applications. Using ModelBuilder in conjunction with the tools found in ArcToolbox powerfully enhances your GeoDatabase building/maintenance procedures. The focus of this class is to learn the tools: creating, editing, and documenting models. Students will leave this class with the confidence for building basic and sound GeoDatabases as well as confidence in constructing their own models from scratch.

Learning GIS Using ArcGIS Desktop

Ken Juengling: GTC, Inc. – 2 days

This is a good course for GIS Managers and Executives who are new to the technology and would like hands on use to get a feel for the capabilities. This course provides the foundation for understanding what GIS is, what it can do, and how others are using it. Students learn the basic functions of a GIS, the properties of GIS maps, why a GIS database is powerful, and what coordinate systems and map projections are and why they are important. This course also covers two common GIS data structures and where geographic data is obtained and how it is made. In course exercises, students work with ArcMap to visualize geographic data, create maps, query a GIS database, perform spatial analysis using simple analysis tools, and solve geographic problems using a systematic approach.

Essentials for Editing and Analysis

Frank Whitman & David Ostanski: KCGIS – 2 days

Full Description: http://www.metrokc.gov/gis/Training/catalog_EA1-Editing.htm

As ArcGIS editing and analysis become more robust and specialized, they also become more and more complex. Many basic features become obscured in the nearly overwhelming environment of toolbars and toolboxes. Add advanced tasks such as versioning and topology to the mix, and it's enough to send unseasoned editors and analysts screaming into the night. This two-day course cuts through the haze and introduces students to the most commonly needed editing and analysis tasks. Students will learn how to find and use the basic editing functions that ArcMap offers, as well as understand more advanced concepts and learn how to make the most efficient and best use of the tools that deal with them.

Using ArcGIS Spatial Analyst

John Schaeffer: Juniper GIS – 2 days

This course introduces participants to the Spatial Analyst extension by working through several projects, including a solar siting analysis and a project to determine wildland fire hazard zones. A third project explores the process of analyzing water tables and the impact of irrigation, providing an opportunity to look at the Hydrology sample provided for ArcGIS.

Cartography with ArcGIS (3 day class paired down to 2 days for the conference)

ESRI – 2 days

ArcGIS makes it easy to design maps for printing, embedding in other documents, and electronic publishing. This course teaches basic principles of cartographic design and how to apply them using ArcGIS cartographic and geoprocessing tools to create outstanding maps. Students examine factors that control and influence cartographic

design, learn techniques to best display vector and raster data, and create maps that communicate information effectively.

Introduction to Geoprocessing Scripts using Python

ESRI – 2 days

The ArcGIS geoprocessing framework includes a scripting environment, and Python® is the scripting language included with ArcGIS. This course introduces the Python scripting language and shows how it can be used to access and automate geoprocessing functionality. Students learn Python scripting syntax, then begin writing scripts to automate geoprocessing operations. Students also learn how to incorporate Python scripts as custom tools in ArcToolbox.

GPS Basics: Collecting Local Data and Incorporating it into GIS Projects

Ken Juengling: GTC, Inc. – 3.5 hours

This is a very introductory GPS seminar - for those who have not been exposed to the technology but would like an opportunity to get up and running with the basics of GPS and how the data is incorporated into an ArcGIS Map.. This hands-on workshop uses a consumer level Global Positioning System (GPS) receiver. Participants will keep the GPS receiver upon completion of the class. The instructor will work with the participants: 1) to provide an overview of how to use a GPS; 2) to conduct an outside activity to collect points of interest ; and 3) to demonstrate how to upload the local GPS data and convert it for use with GIS software.

Metadata: Creation, Posting, Maintenance, and Best Practices

Mike Leathers: KCGIS. – 3.5 hours

The creation of metadata that conforms to GIS community standards, that is closely integrated with your data, and is stored in industry-standard XML format is critical to making your data fully useful to your clients. Students will build FGDC-compliant metadata with ArcCatalog tools and metadata extensions. A pre-defined 'starter' template, based on the student's data set of interest will be imported and updated to meet FGDC-baseline requirements while producing a complete and useful metadata document. In-line quality assessment will provide immediate feedback for producing a final XML document and publishable stylesheets in XML format. Metadata maintenance and KCGIS posting and publishing protocols will be described, as well as other downstream enterprise products and future development plans. A step-by-step workbook with easy-to-follow visual guides and hints will be provided as part of the class to be used in an optional classroom exercise in creating your own metadata. It will also serve as a valuable take-home tool for additional metadata creation or maintenance. To obtain the greatest value from this class, participants should provide a copy of an ESRI shapefile data set that they wish to document.