

Exhibit 3 - Listing of Available Elective Training Relative to GIS and ArcGIS for Soil Scientists in the National Cooperative Soil Survey

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Path #	Path Name	Item ID	Course Name (link if applicable)	Course Type	Course Format	Course Exists	Length	Notes
I	Soil Application Learning Path	n/a	<i>ESRI classes not applicable to this path</i>					
II	Soil Survey Geospatial Database Fundamentals	n/a	Basics of the Geodatabase Data Model	ESRI Virtual Campus	online class	yes	3 hours	This course is designed for those who are new to the geodatabase or who are considering migrating their geographic data from other formats to the geodatabase.
II	Soil Survey Geospatial Database Fundamentals	n/a	Creating and Editing Geodatabase Features with ArcGIS 9 (for ArcEditor and ArcInfo)	ESRI Virtual Campus	online class	yes	6 hours	This course is designed for experienced ArcGIS users who want to create and edit data stored in a geodatabase.
II	Soil Survey Geospatial Database Fundamentals	n/a	Editing Spatial Data in ArcMap: Tips and Tricks	ESRI Virtual Campus	online class	yes	3 hours	This course is designed for experienced ArcGIS users who want to better understand the ArcMap feature editing tools and options available on the Editor toolbar.
III	Soil Remote Sensing	n/a	Georeferencing Rasters in ArcGIS	ESRI Virtual Campus	online class	yes	3 hours	This course is designed for ArcGIS users who work with raster data and want to learn about registering rasters to a known projection.
IV	Soil Geospatial Analysis	n/a	Getting Started with Surface Analysis using ArcGIS Spatial Analyst	ESRI Virtual Campus	online class	yes	3 hours	This workshop is designed for ArcGIS users who want a foundation for advanced spatial analysis and modeling using ArcGIS Spatial Analyst.
IV	Soil Geospatial Analysis	n/a	Working with Rasters in ArcGIS 9	ESRI Virtual Campus	online class	yes	9 hours	This course is designed for experienced ArcGIS users who want to better understand and work with rasters. This course provides a foundation for more advanced work with rasters using the ArcGIS Spatial Analyst and ArcGIS 3D Analyst extensions.
IV	Soil Geospatial Analysis	n/a	Geoprocessing with ArcGIS Desktop	ESRI Virtual Campus	online class	yes	15 hours	This course is designed for experienced ArcGIS Desktop users who want to use geoprocessing tools and models in their GIS projects.

IV	Soil Geospatial Analysis	n/a	Geoprocessing Using ModelBuilder	ESRI Virtual Campus	online video	yes	1 hour	(FREE online video) This seminar is intended for ArcGIS Desktop users who want to use ModelBuilder to make their geoprocessing tasks more streamlined and efficient. Participants should be familiar with ArcGIS Desktop and have a basic understanding of the ArcGIS 9 geoprocessing framework.
IV	Soil Geospatial Analysis	n/a	Creating and Integrating Data for Natural Resource Applications	ESRI Virtual Campus	online class	yes	12 hours	This course is designed for experienced ArcGIS users who want to create and integrate vector and raster data for conservation projects or other natural resource applications.
V	Field Techniques	B	Customizing ArcPad	ESRI Virtual Campus	online class	yes	3 hours	This course is designed for those who want to customize ArcPad to expedite field data acquisition.
V	Field Techniques	B	Working with ArcPad 7	ESRI Virtual Campus	online class	yes	3 hours	(Includes online video) This course is designed for those interested in learning how to deploy mobile GIS into their enterprise. Law enforcement officers, fire fighters, utility workers, inspectors, soldiers, census workers, biologists, and others who collect and update data in the field may find the course of particular interest.
V	Field Techniques	A	Introduction to Trimble GPS Analyst Extension for ArcGIS Software	ESRI Virtual Campus	online video	yes	1 hour	(FREE online video) This seminar is designed for technicians who collect and process mapping-grade GPS data, as well as for GIS technicians and managers interested in GPS field mapping.
VI	Database Administration	A	Creating and Maintaining Metadata Using ArcGIS Desktop	ESRI Virtual Campus	online class	yes	9 hours	This course is designed for experienced ArcGIS users who work with, create, edit, or manage spatial data.
VI	Database Administration	B	Building Geodatabases	ESRI Instructor Led	classroom	yes	3 days	This course is designed for experienced ArcGIS users who want to store data in a geodatabase and take advantage of advanced geodatabase functionality. Data managers will find this course of particular benefit.
VI	Database Administration	B	Creating, Editing, and Managing Geodatabases for ArcGIS 9	ESRI Virtual Campus	online class	yes	12 hours	This course is designed for experienced ArcGIS users who need an introduction to creating, editing, and managing data stored in a personal geodatabase.

VI	Database Administration	B	Creating and Editing Geodatabase Features with ArcGIS 9 (for ArcEditor and ArcInfo)	ESRI Virtual Campus	online class	yes	6 hours	This course is designed for experienced ArcGIS users who want to create and edit data stored in a geodatabase.
VI	Database Administration	B	Creating and Editing Geodatabase Topology with ArcGIS 9 (for ArcEditor and ArcInfo)	ESRI Virtual Campus	online class	yes	6 hours	This course is designed for experienced ArcGIS users who create and maintain GIS data that has topology and is stored in a geodatabase.
VI	Database Administration	B	Working with Geodatabase Subtypes and Domains (for ArcEditor and ArcInfo)	ESRI Virtual Campus	online class	yes	3 hours	(Includes online video) This course is designed for ArcGIS users who want to learn how to use subtypes and domains for improved geodatabase organization and efficiency. (Streaming presentation format).
VI	Database Administration	B	Working with Geodatabase Precision and Spatial Domain	ESRI Virtual Campus	online video	yes	1 hour	(FREE online video) This seminar is designed for those who need to add data to a geodatabase. Database administrators and GIS analysts will find the seminar of particular interest.
VI	Database Administration	B	Working with Geodatabase Topology	ESRI Virtual Campus	online video	yes	1 hour	(FREE online video) This seminar is for ArcGIS users who want to learn how to use geodatabase topology to help insure the integrity of their data.
VI	Database Administration	C	Introduction to the Multiuser Geodatabase	ESRI Instructor Led	classroom	yes	2 days	This course is designed for experienced ArcGIS users who are familiar with the geodatabase data model and are migrating to a multiuser geodatabase environment. GIS managers will also find the course a useful introduction to the capabilities and uses of a multiuser geodatabase.
VI	Database Administration	C	Data Management in the Multiuser Geodatabase	ESRI Instructor Led	classroom	yes	3 days	This course is designed for GIS and database administrators who want to implement a workgroup or enterprise ArcSDE geodatabase. This course pairs well with the ArcGIS Server Enterprise Configuration and Tuning for Oracle and ArcGIS Server Enterprise Configuration and Tuning for SQL Server courses.

VI	Database Administration	C	Managing Editing Workflows in a Multiuser Geodatabase	ESRI Instructor Led	classroom	yes	3 days	This course is designed for ArcSDE users and experienced ArcGIS users who want to learn how to manage their editing environment in a multiuser geodatabase. This course is suitable for those working with personal, workgroup, and enterprise geodatabases.
VI	Database Administration	C	Storing Raster Data in an ArcSDE Geodatabase (for ArcEditor and ArcInfo)	ESRI Virtual Campus	online class	yes	3 hours	This course is designed for those who are responsible for managing raster data in ArcSDE geodatabases.
VI	Database Administration	C	Introduction to ArcSDE	ESRI Virtual Campus	online video	yes	1 hour	(FREE online video) This seminar is designed for those who want to explore the features and best practices of ArcSDE. Those who are considering or who recently started using ArcSDE will find this seminar particularly helpful.
VI	Database Administration	C	Understanding ArcSDE Table Relationships	ESRI Virtual Campus	online video	yes	1 hour	(FREE online video) This seminar is designed for ArcGIS users who access both spatial data and related attribute data from an ArcSDE geodatabase.
VI	Database Administration	C	Understanding the ArcSDE Spatial Index	ESRI Virtual Campus	online video	yes	1 hour	(FREE online video) This training seminar is designed for ArcSDE users and administrators who want to better understand how to use the ArcSDE spatial index and how to tune it for optimal query performance for Oracle, DB2, and SQL Server.
VI	Database Administration	D	ArcGIS Enterprise Systems: Performance and Scalability	ESRI Instructor Led	classroom	yes	3 days	This course is for enterprise system developers, architects, and database administrators who are currently or will be developing and maintaining enterprise systems using ArcGIS Desktop, ArcSDE, ArcGIS Engine, or ArcGIS Server.
VI	Database Administration	Other	Introduction to ArcWeb Services	ESRI Virtual Campus	online video	yes	1 hour	(FREE online video) The seminar addresses two groups: ArcGIS users who want to access ArcWeb Services data and functionality within ArcMap, and programmers (with or without ArcGIS) who want to integrate ArcWeb Services into their own custom Web applications.

VII	Customization and Programming	C	ArcGIS Server Enterprise Configuration and Tuning for SQL Server	ESRI Instructor Led	classroom	yes	2 days	This course is designed for experienced SQL Server database administrators who need to understand how to install and configure an enterprise geodatabase. Students may choose to also enroll in Data Management in the Multiuser Geodatabase, which complements this course.
VII	Customization and Programming	D	Introduction to Visual Basic 6	ESRI Virtual Campus	online class	yes	18 hours	This course is designed for those with no Visual Basic or programming experience. The foundation-level programming skills taught in this course prepare students for courses that teach customization of ArcGIS and MapObjects.
VII	Customization and Programming	D	Learning Visual Basic for Applications for New ArcGIS Developers	ESRI Virtual Campus	online class	yes	18 hours	This course is designed for ArcGIS users with no VBA or programming experience. The foundation-level programming skills taught in this course prepare students for courses that teach customization of ArcGIS software using ArcObjects.
VII	Customization and Programming	D	Understanding Branching and Looping in VBA	ESRI Virtual Campus	online class	yes	3 hours	This course is designed for ArcGIS users who want to learn VBA programming techniques in order to customize the ArcGIS interface and create custom solutions.
VII	Customization and Programming	D	Working with Forms in VBA	ESRI Virtual Campus	online class	yes	3 hours	This course is designed for ArcGIS users who want to learn VBA programming techniques in order to customize the ArcGIS interface and create custom solutions.
VII	Customization and Programming	D	Working with Variables and Functions in VBA	ESRI Virtual Campus	online class	yes	3 hours	This course is designed for ArcGIS users who want to learn VBA programming techniques in order to customize the ArcGIS interface and create custom solutions.
VII	Customization and Programming	D	Getting Started with ArcObjects in ArcGIS	ESRI Virtual Campus	online video	yes	1 hour	(FREE online video) This seminar is designed for ArcGIS users who want to start customizing the ArcGIS Desktop applications with VBA code and ArcObjects.
VII	Customization and Programming	D	Introduction to ArcGIS for Developers	ESRI Virtual Campus	online video	yes	1 hour	(FREE online video) This seminar is intended for those interested in developer opportunities with the ArcGIS system.

VII	Customization and Programming	D	Migrating to VB .NET	ESRI Virtual Campus	online video	yes	1 hour	(FREE online video) This seminar is designed for ArcObjects developers who have created Visual Basic applications and want to move those applications to Visual Basic .NET.
VII	Customization and Programming	Other	Customizing ArcGIS 9	ESRI Virtual Campus	online class	yes	6 hours	This course is designed for ArcGIS users who want to change the software interface and add custom functionality, without learning how to write code.
VII	Customization and Programming	Other	Customizing ArcMap: Easy Ways to Extend the Interface	ESRI Virtual Campus	online class	yes	3 hours	This course is designed for ArcGIS users who would like to customize the default ArcMap interface or extend its functionality. (Includes brief examples of using sample code in VBA).
VII	Customization and Programming	Other	Building Applications with ArcGIS Server Using the Microsoft .NET Framework	ESRI Virtual Campus	online video	yes	1 hour	(FREE online video) This seminar is intended for Microsoft .NET developers who want to build applications with ArcGIS Server 9.2. Both basic and advanced .NET developers will find useful topics such as declarative UI modifications to existing applications and the framework to extend and customize ArcGIS Server.
VIII	Specializations	E	Hydrologic and Hydraulic Analyses Using ArcGIS	ESRI Instructor Led	classroom	yes	5 days	(Sounds very specific). This course is geared towards H&H professionals and GIS professionals supporting H&H analyses. The class will cover the essentials of both H&H and GIS to provide background material needed to complete and understand the class. The lectures and exercises do not require extensive GIS or H&H background. Advanced H&H or GIS users will have an opportunity to work with their own data during the class exercises.
VIII	Specializations	F	Introduction to ArcGIS 9 Geostatistical Analyst	ESRI Virtual Campus	online class	yes	3 hours	(Applies to F. Statistics) (FREE online video) This course is designed for GIS professionals and students who want an introduction to ArcGIS Geostatistical Analyst.

VIII	Specializations	F	Understanding Spatial Statistics in ArcGIS 9	ESRI Virtual Campus	online video	yes	1 hour	(Applies to F. Statistics) (FREE online video) Epidemiology, wildlife biology, archaeology, law enforcement, and many other disciplines use GIS software to perform spatial statistical analysis. This seminar is designed for individuals in those fields and others that are interested in learning about the spatial statistics tools available with ArcGIS 9.
VIII	Specializations	F	Integrating SAS Software with ArcGIS	ESRI Virtual Campus	online video	yes	1 hour	(Applies to F. Statistics) (FREE online video) This seminar is designed for managers, analysts, and technicians who would like to learn how SAS software can be integrated with ArcGIS.
VIII	Specializations	J	Introduction to Job Tracking for ArcGIS (JTX)	ESRI Virtual Campus	online video	yes	1 hour	(Applies to J. PLTS/JTX) (FREE online video) This seminar is designed to introduce GIS managers to a tool that will help them manage the completion of enterprise GIS tasks while tracking changes to data, staffing resources, time schedules, and more.
VIII	Specializations	J	Introduction to Map Production System-Atlas	ESRI Virtual Campus	online class	yes	3 hours	(Applies to J. Part of PLTS) This course is designed for experienced ArcGIS users who want to learn how to use the MPS-Atlas extension for high-volume map production projects.
VIII	Specializations	K	Cartography with ArcGIS	ESRI Instructor Led	classroom	yes	3 days	This course is designed for experienced ArcGIS users who want to produce high-quality map products. Students are encouraged to bring their own maps for use in map critique exercises.
VIII	Specializations	K	ArcGIS Annotation: Tips and Tricks	ESRI Virtual Campus	online class	yes	3 hours	(Applies to K. Cartography) This workshop is designed for ArcGIS users who want to explore the benefits of annotation over labeling when creating digital and hard copy maps.
VIII	Specializations	K	Cartographic Design Using ArcGIS 9	ESRI Virtual Campus	online class	yes	21 hours	(Applies to K. Cartography) This course is designed for experienced ArcGIS Desktop users who want to create maps that communicate effectively.

VIII	Specializations	K	Learning ArcGIS 9 3D Analyst	ESRI Virtual Campus	online class	yes	21 hours	(Applies to K. Cartography) This course is designed for those who want to apply three-dimensional visualization and analysis techniques to their spatial data.
VIII	Specializations	K	Labeling in ArcMap: Tips and Tricks	ESRI Virtual Campus	online class	yes	3 hours	(Applies to K. Cartography) This course is designed for ArcGIS users who need to create presentation-quality labels in ArcMap.
VIII	Specializations	K	Creating and Editing Labels and Annotation	ESRI Virtual Campus	online class	yes	3 hours	(Applies to K. Cartography) This course is designed for experienced ArcGIS users who want to learn how to efficiently create attractive, effective map labels and annotation.
IX	Refresher Courses	2	What's New in ArcGIS 9	ESRI Virtual Campus	online video	yes	1 hour	(FREE online video) This seminar is designed for those who want to explore the new features included with ArcGIS 9.
IX	Refresher Courses	2	What's New in ArcGIS Desktop at 9.2	ESRI Virtual Campus	online video	yes	1 hour	(FREE online video) This seminar is designed for those who want to explore the new features included with ArcGIS 9.2 Desktop.
IX	Refresher Courses	2	What's New in the Geodatabase at ArcGIS 9.2	ESRI Virtual Campus	online video	yes	1 hour	(FREE online video) This seminar is designed for ArcGIS users who want to explore new features included with ArcSDE technology at ArcGIS 9.2.
IX	Refresher Courses	Other	What's New in ArcGIS 9 Labeling and Annotation	ESRI Virtual Campus	online video	yes	1 hour	(FREE online video) This seminar is designed for those who want to learn more about the new labeling and annotation features available with ArcGIS 9.
IX	Refresher Courses	Other	What's New in ArcGIS Server at 9.2	ESRI Virtual Campus	online video	yes	1 hour	(FREE online video) This seminar is designed for those who want to explore the new features included with ArcGIS Server 9.2.