

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

Open me First!!!!!!



Path/Area #	Path Name	Item ID	Course Name (link if applicable)	Course Type	Course Format	Course Exists	Length	Notes
	None		Basic Statistics	USDA Grad School	classroom	yes	24 hrs	
	None		Elements of Statistics	USDA Grad School	self study	yes	1 yr	
	None		Introductory Statistics I	USDA Grad School	classroom	yes	30 hrs	
	None		Introductory Statistics II	USDA Grad School	classroom	yes	30 hrs	
I	Soil Application Learning Path	1	Web Soil Survey			no		Utilize Job Aid(s)
I	Soil Application Learning Path	1	Soil Data Mart			no		Utilize Job Aid(s)
I	Soil Application Learning Path	1	Soil Technology:Applications of Soil Data Viewer and ArcGIS in Technical Soil Services	NTSC's	classroom	yes	3 days	See course description in Aglearn (NRCS)
II	Soil Survey Geospatial Database Fundamentals	1	Understanding Map Projections and Coordinate Systems	ESRI Virtual Campus	online class	yes	18 hours	
II	Soil Survey Geospatial Database Fundamentals	2	Introduction to ArcGIS I for USDA SCA	NCGC/ESRI	classroom	yes	3 days	1 of 3 alternatives
II	Soil Survey Geospatial Database Fundamentals	2	Introduction to ArcGIS I	ESRI	classroom	yes	2 days	1 of 3 alternatives
II	Soil Survey Geospatial Database Fundamentals	2	Learning ArcGIS Desktop	ESRI Virtual Campus	online class	yes	24 hours	1 of 3 alternatives
II	Soil Survey Geospatial Database Fundamentals	3	Digital Soil Survey Data Management and Editing	NEDC	classroom	yes		See Exhibits 1 & 2
III	Soil Remote Sensing	1	Basic Image Interpretation (under development)	NEDC	online class	FY07-08		See Exhibits 1 & 2
III	Soil Remote Sensing	2	Introduction to Digital Remote Sensing (under development)	NEDC	classroom	FY07-08		See Exhibits 1 & 2
III	Soil Remote Sensing	3	Remote Sensing for Soil Survey Applications (under development)	NEDC	classroom	FY07-08		See Exhibits 1 & 2
IV	Soil Geospatial Analysis	1	Working with ArcGIS Spatial Analyst 9 (USDA SCA)	NCGC/ESRI	classroom	yes	4 days	1 of 3 alternatives
IV	Soil Geospatial Analysis	1	Learning ArcGIS 9 Spatial Analyst	ESRI Virtual Campus	online class	yes	18 hours	1 of 3 alternatives, also would require them to take a local followup class, or job aid equivalent
IV	Soil Geospatial Analysis	1	Working with ArcGIS Spatial Analyst	ESRI	classroom	yes	3 days	1 of 3 alternatives, also would require them to take a local followup class, or job aid equivalent
IV	Soil Geospatial Analysis	2	Spatial Modeling - Correlation Decision Support System			no		See Exhibits 1 & 2
IV	Soil Geospatial Analysis	3	Raster Geodatabase Management					ESRI does have a VC class on this topic, not sure if this will fit the requirements here
IV	Soil Geospatial Analysis	4	Digital Soil Mapping (DSM) (planned for future)			no		See Exhibits 1 & 2
V	Field Techniques	A	Global Positioning Systems			no		Nothing from ESRI here, look for online materials

V	Field Techniques	B	Mobile Computing			no		also see extra classes (Virtual Campus classes) for related topics
V	Field Techniques	C	Pedon PC			no		See Exhibits 1 & 2
VI	Database Administration	A	Metadata					Combine ESRI class with USDA metadata tool materials? Job aid?
VI	Database Administration	B	Geodatabase management and administration					Many ESRI options available here, see their catalog and extra class listings in this spreadsheet
VI	Database Administration	C	ArcSDE Personal, ArcSDE workgroup geodatabase	ESRI	classroom	yes	up to 1 week	Many ESRI options available here, see their catalog and extra class listings in this spreadsheet
VI	Database Administration	D	ArcSDE Enterprise	ESRI	classroom	yes	up to 1 week	Many ESRI options available here, see their catalog and extra class listings in this spreadsheet
VII	Customization and Programming	A	Geoprocessing Using ModelBuilder	ESRI Virtual Campus	online video	yes	1 hour	may also add job aids here
VII	Customization and Programming	B	SQL Query, SQL Express, personal workgroup					Many ESRI options available here, see their catalog and extra class listings in this spreadsheet
VII	Customization and Programming	C	SQL Query, SQL Enterprise (national)					Many ESRI options available here, see their catalog and extra class listings in this spreadsheet
VII	Customization and Programming	D	Learning Visual Basic for Applications for New ArcGIS Developers	ESRI Virtual Campus	online class	yes	18 hours	several alternatives exist here depending on needs of programmer, also see extra course listing
VII	Customization and Programming	D	Getting Started with ArcObjects in ArcGIS	ESRI Virtual Campus	online video	yes	1 hour	several alternatives exist here depending on needs of programmer, also see extra course listing
VII	Customization and Programming	D	Introduction to Programming ArcObjects with VBA	ESRI	classroom	yes	1 week	several alternatives exist here depending on needs of programmer, also see extra course listing
VII	Customization and Programming	D	Extending ArcGIS Desktop Applications	ESRI Instructor Led	classroom	yes	3 days	several alternatives exist here depending on needs of programmer, also see supplemental course listing
VIII	Specializations	A	Advanced Model Builder			no		to be developed as specific job aid?
VIII	Specializations	A	Advanced Analysis with ArcGIS	ESRI	classroom	yes	3 days	an alternative?
VIII	Specializations	B	Getting Started with Scripting in ArcGIS 9	ESRI Virtual Campus	online video	yes	1 hour	this is just a brief intro, one alternative
VIII	Specializations	B	Introduction to Geoprocessing Scripts Using Python	ESRI	classroom	yes	2 days	longer class for those who need it
VIII	Specializations	B	Writing Advanced Geoprocessing Scripts Using Python	ESRI	classroom	yes	3 days	longer class for advanced users
VIII	Specializations	C	Soil Resource Inventory Toolbox (SRITB)					
VIII	Specializations	D	Advanced Geoprocessing	various		no		to be developed as series of job aids on specific topics needed by NRCS

VIII	Specializations	E	Arc Hydro: GIS for Water Resources	ESRI	classroom	yes	3 days	not offered very much, may also develop job aids in addition to this classroom training from ESRI
VIII	Specializations	F	Geostatistics	various				see extra course listings
VIII	Specializations	G	Terrain analyses	various				to be developed as series of job aids on specific topics needed by NRCS
VIII	Specializations	H	Vegetative analyses	various				to be developed as series of job aids on specific topics needed by NRCS
VIII	Specializations	I	Climate analyses	various				to be developed as series of job aids on specific topics needed by NRCS
VIII	Specializations	J	Cartography with PLTS Map Production System-Atlas	ESRI	classroom	yes	2 days	also see extra classes (Virtual Campus classes)
VIII	Specializations	J	Introduction to Job Tracking for ArcGIS (JTX)	ESRI Virtual Campus	online video	yes	1 hour	
VIII	Specializations	K	Cartography with ArcGIS	ESRI	classroom	yes	3 days	also see extra classes (Virtual Campus classes)
VIII	Specializations	L	Introduction to ArcGIS II	ESRI	classroom	yes	3 days	