TRAINING FOR NCSS SOIL SCIENTISTS

Marc Crouch, Training Coordinator, National Soil Survey Center, NRCS, USDA, Lincoln, NE

Other NRCS Courses (concurrently)

- Intro to NRCS - Part 1
- Intro to NRCS - Part 2
- AG 101
- Orientation for New Employees
- Conservation Planning - Part 1
- Conservation Boot Camp
- Conservation Planning - Parts 2 & 3
- Managing for Excellence
- Supervising for Excellence
- Leading for Excellence
- Cultural Resources
- Other, as needed

MLRA Project Office Staffs

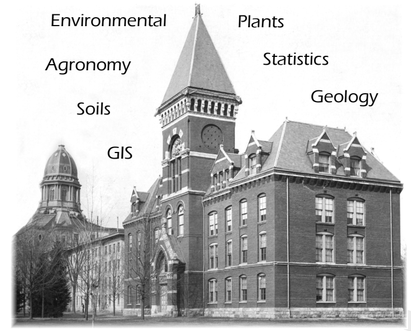
- Correlation & Management of MLRA Soil Surveys
- Remote Sensing for Soil Survey Applications
- Digital Soil Mapping
- Correlation Decision Support with Spatial Analyst
- Soil Technology - Measurement & Data Evaluation
- Soil Geomorphology Institute
- NASIS - Basic Query & Report Writing, Site/Pedon, Interpretations, Advanced Report Writing
- GIS electives & specializations, as needed

State Office & TSS Office Staffs

- Soil Technology - Programs & Applications
- Advanced Hydric Soils for Soil Scientists
- Soil Technology - Applications of SDV with ArcGIS in Technical Soil Services
- Soil Data Mart Access
- Custom Interpretations
- Soil Technology - Measurement & Data Evaluation
- Soil Geomorphology Institute
- NASIS - Basic Query & Report Writing, Site/Pedon, Interpretations, Advanced Report Writing
- GIS electives & specializations, as needed

GIS Support Staffs

- Remote Sensing for Soil Survey Applications
- Digital Soil Mapping
- Raster Geodatabase Management
- ArcSDE Personal and Workgroup File Geodatabases
- ArcSDE Enterprise
- Model Builder
- SQL Query
- Specializations, as needed



University
30/15 semester hours

Web Soil Survey, Soil Data Mart

Pedon PC, GPS

Basic Image Interpretation

On-the-Job Training

Understanding Map Projections and Coordinate Systems

Soil Data Viewer

Mobile Computing

Basic Soil Survey

NASIS - Basic

Intro to ArcGIS

Soil Geomorphology Institute

Understanding and Developing Metadata

Soil Correlation

NASIS - Intermediate

Digital Soil Survey Data Management & Editing

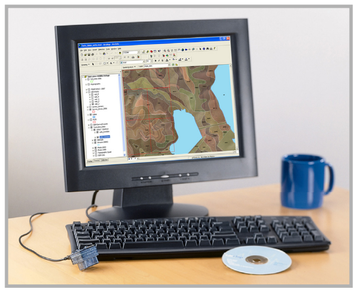
Personal Geodatabase Management

Soil Resource Inventory Toolbox (SRITB)

Advanced Geoprocessing

Intro to Digital Remote Sensing

Working with ArcGIS Spatial Analyst



GIS Training Pathways

Applications
- Web Soil Survey
- Soil Data Mart
- Soil Data Viewer

Geospatial Fundamentals
- Understanding Map Projections & Coordinate Systems
- Introduction to ArcGIS
- Digital Soil Survey Data Management & Editing

Remote Sensing
- Basic Image Interpretation
- Intro to Remote Sensing
- Remote Sensing for Soil Survey Application

Geospatial Analysis
- Working/Learning ArcGIS Spatial Analyst
- Spatial Modeling - Correlation Decision Support with Spatial Analyst
- Raster Geodatabase Management
- Digital Soil Mapping

Field Techniques
- GPS
- Mobile Computing
- Pedon PC

Database Administration
- Metadata
- Personal Geodatabase Management
- ArcSDE Personal & Workgroup
- ArcSDE Enterprise

Custom Programming
- Model Builder
- SQL Query Personal & Workgroup
- SQL Query Enterprise

Specializations
- Advanced Model Builder, Python Scripting, SRITB, Advanced Geoprocessing, ArcHydro, Geostatistics, Terrain Analysis, Vegetative Analysis, Climate Analysis, Production Line Toolset & Job Tracking, Visualization - Publication - Presentation Tools, Introduction to ArcGIS II

Refresher Training

- ESRI "What's New"
- Archived and available up-to-date training modules
- Soil Science Institute (hosted by Universities)

Education: Undergraduate and Graduate

- Return to University setting
- Distance learning options

NRCS
Natural Resources Conservation Service

USDA is an equal opportunity provider and employer.