

## Training Requirements: Geographic Information Specialist Group

The following list is a recommended progression of official trainings grouped within broad career advancement stages. Courses are listed within recommended career timeframes, to which there is no requirement implied, simply a guide to supervisory expectations of job duty skill acquisition with experience.

Elective courses are highly recommended, but not required within the curriculum. Nor are electives limited to those courses listed on this curriculum -- individuals are encouraged to tailor their trainings to fit their needs.

Offerings are not restricted to the level in which they occur and should not be used as a means of determining promotion eligibility.

These curricula do not in any way reflect the training necessary to fulfill the requirements for specific OPM job series, nor do they serve in any way to change the existing OPM-defined requirements for the specific job series.

### Beginner

#### CORE COURSES

##### Year 1

- ArcGIS Pro: Essential Workflows (ESRI Virtual Campus)
- Basics of Geographic Coordinate Systems (ESRI Virtual Campus)
- Basics of Map Projection (ESRI Virtual Campus)
- Displaying Data in ArcGIS Pro (ESRI Virtual Campus)
- Getting Started with the Geodatabase (ESRI Virtual Campus)

##### Years 2-3

- Digital Soil Survey Data Editing (NRCS-NEDC-000250)
- Digital Soil Survey Management (NRCS-NEDC-000251)
- Introduction to Image Interpretation (NRCS-NEDC-000275)
- NASIS Basic (Guides)
- Spatial Analysis Workshop (NRCS-NEDC-000271)

##### Years 4-5

- NASIS – Understanding Soil Interpretations (NRCS-NEDC-000279)
- Soil Technology – Application of Soil Data Viewer and ArcGIS in Technical Soil Services (NRCS-NSSC-000001)
- Statistics for Soil Survey Part 1 (NRCS-NEDC-000400)

#### RECOMMENDED ELECTIVE COURSES

##### *Agency Knowledge*

- Basic Field Conservation Orientation (Detail in field service center for 2-3 weeks)
- Basic Soil Survey – Field and Lab (NRCS-NEDC-000012)
- Introduction to the Field Office Technical Guide (NRCS-NEDC-000149)
- NRCS Mentor and Protégé Training (NRCS-NEDC-LOCAL-000003)
- Orientation for New Employees (NRCS-NEDC-000013)

### *Basic Skills*

- How to Use DigiTop (National Agricultural Library interface)
- MS Excel Series (AgLearn Web-based learning)

### *Work Life*

- Emotional Intelligence 2.0 (Audio book USDA-BOOK-49926)
- What is Emotional Intelligence? (AgLearn Web-based learning)

## **Intermediate**

### **CORE COURSES**

#### **Early Mid-career**

- ArcGIS 3 Performing Analysis (ESRI Virtual Campus)
- Editing Data with ArcGIS for Desktop (ESRI Virtual Campus)
- ESRI Intermediate User Courses
- Getting Started with Cartographic Representations (ESRI Virtual Campus)
- Introduction to ArcGIS Pro for GIS Professionals (ESRI Virtual Campus)
- Labelling Features with ArcGIS Pro (ESRI Virtual Campus)
- Managing Map Layers in ArcGIS Pro (ESRI Virtual Campus)
- Map design Fundamentals (ESRI Virtual Campus)
- Planning a Cartography Project (ESRI Virtual Campus)

#### **Mid-career**

- ArcGIS 4 Sharing Content on the Web (ESRI Virtual Campus)
- Digital Soil Mapping with ArcSIE (NRCS-NEDC-000273)
- Introduction to Digital Remote Sensing (NRCS-NEDC-000028)
- Python for Everyone (ESRI Virtual Campus)
- Remote Sensing for Soil Survey Applications (NRCS-NEDC-000244)
- SQL (SkillSoft Online Training)

### **RECOMMENDED ELECTIVE COURSES**

#### *Basic Skills*

- Becoming an Effective Presenter (TBD)
- Conquering the Challenges of Public Speaking (AgLearn Web-based learning)
- Managing for Excellence (NRCS-NEDC-000010)
- MS Access (Web-based learning)

#### *Leadership*

- USDA Aspiring Leader Program (AgLearn Self-assigned curriculum)

#### *Technical Skills*

- Ecological Site Fundamentals (New Course)
- Science of Interpretations (NRCS-NEDC-000288)

#### *Work Life*

- Emotional Intelligence: Building Self-Management Skills (AgLearn Web-based learning)
- Emotional Intelligence at Work (AgLearn Web-based learning)
- Time Management (AgLearn Web-Based books)

## Advanced/Leadership

### CORE COURSES

- Change Detection Using Imagery (ESRI Virtual Campus)
- Creating Prediction Surfaces in ArcGIS (ESRI Virtual Campus)
- Creating 3D data Using ArcGIS (ESRI Virtual Campus)
- Distance Analysis Using ArcGIS Pro (ESRI Virtual Campus)
- Editing 3D Features Using ArcGIS Pro (ESRI Virtual Campus)
- Introduction to Geoprocessing Scripts using Python (ESRI Virtual Campus)
- Managing LiDAR Data Using Mosaic Datasets (ESRI Virtual Campus)
- Managing Raster Sets Using ArcGIS (ESRI Virtual Campus)
- Python Scripting Geoprocessing Workflows (ESRI Virtual Campus)
- Python Scripting for Map Automation (ESRI Virtual Campus)
- Sharing 3D Content with ArcGIS (ESRI Virtual Campus)
- Spatial Analysis Workshop (NRCS-NEDC-000271)

### RECOMMENDED ELECTIVE COURSES

#### *Leadership*

- Emotionally Intelligent Leadership (AgLearn Web-based learning)
- Everything You Need to Know About Leadership in 60 Seconds (AgLearn Web-based learning)
- 151 Quick Ideas for Delegating and Decision Making (AgLearn Web-based learning)
- 151 Quick Ideas to Improve Your People Skills (AgLearn Web-based learning)
- USDA Team Leader program (AgLearn Self-assigned curriculum)

#### *Technical Skills*

- NASIS – Designing and Developing Soil Interpretations (NRCS-NEDC-000302)
- Statistics for Soil Survey Part 2 (NRCS-NEDC-000332)

#### *Worklife*

- Just Listen: Discover the Secret of Getting Through to Absolutely Anyone ((AgLearn Web-based learning)
- 100 ways to Motivate Yourself (AgLearn Web-based learning)