Lesson 1: Spatial Joins
- What is a spatial join?
- Cardinality
- Feature geometries
- Coordinate systems
- Setting up spatial joins

Lesson 2: Map Overlay
- About Geoprocessing
- Map Overlay functions
- Buffering
- Dissolving
- Environment Settings

Lesson 3. Modelbuilder
- About Model Builder
- Toolboxes
- Creating models
- Running models
- Inputs and Outputs
- Model Parameters

Lesson 4. Network analysis
- About Networks
- Flags and Barriers
- Tracing algorithms
- Transportation Analysis
- Utility Analysis

Lesson 5. Geocoding
- Understanding geocoding
- Styles of geocoding
- Setting up geocoding services
- Understanding geocoding options
- Converting addresses to locations

Lesson 6. Raster basics
- Raster storage model
- Discrete/continuous rasters
- Integer and floating point rasters
- Raster formats
- Raster tables and areas

Lesson 7. Raster Overlay
- Raster analysis options
- Converting layers
- Reclassifying rasters
- Boolean analysis
- The Raster Calculator
- Distance functions

Lesson 8. Raster Analysis
- Topographic functions
- Neighborhood functions
- Zonal Functions
- Interpolation functions

For information on upcoming workshops, or to register for a workshop, go to http://geology.sdsmt.edu/220750