

## ArcGIS -1 Introduction to GIS

### **What is the ArcGIS platform?**

- Tools to easily find, create, share, and use GIS maps
- Multiplatform accessibility

### **What is GIS?**

- Components of a GIS
- Understanding the geographic approach
- What can you do with a GIS?
- Making and sharing a map using ArcGIS Online

### **What makes data geographic?**

- Representing real-world features digitally
- Geographic data formats and non-geographic data formats
- Documenting important information about data with metadata

### **Mapping real-world feature locations using coordinate systems**

- Geographic and projected coordinate systems
- Identifying a dataset's coordinate system
- Changing a dataset's coordinate system
- Changing the coordinate system for a map

### **Finding GIS maps and data**

- Considerations when selecting data
- Sources of GIS data

### **Exploring a GIS map**

- Navigating around places of interest
- Finding features and accessing feature information
- Changing feature symbology
- Visualizing change over time

### **GIS analysis**

- Solving spatial problems
- Five-step process
- Determining where and when things occurred
- Sharing analysis results as graphs and layers

### **Sharing GIS maps and results**

- Common ways to share maps and results
- Sharing tools and data
- Sharing results as web maps and web mapping applications
- Accessing content through ArcGIS Online