GIS Fundamentals: Ch.1 (pp. 1-20), Ch.2 (pp. 25-61)
Reading assignment: “Why_GIS?” (on class web site)

Material presented this week contributes to the accomplishment of the following course goal:

| Goal 3  Use GIS to perform basic spatial data analysis |
| Goal 7  Construct a map that successfully communicates the desired information to a user |

Information obtained this week will further expose you to metadata and the standard information associated with CSDGM compliant metadata. It will give you a tool to search for data as well as describe your own data. You will also begin to work with GIS to conduct simple data analysis and develop a basic map.

After studying class notes and reading assignments, participating in class discussions, and conducting lab. 7, you should be able to:

- Explain the basic make up of a GIS
- Explain how attributes can be added to an attribute table in ArcGIS
- Modify the default display symbols used in ArcGIS to display a layer
- Develop simple and complex queries of an attribute table in ArcGIS
- Measure distances between points using ArcGIS
- Join attributes from one GIS shapefile to another
- Describe the basic map elements necessary to communicate the desired information to a map user.
- Use ArcGIS to construct a map that effectively communicates information to the intended user
- Explain each of the components listed in CSDGM
- Develop a metadata file for digital data consistent with CSDGM