Exercise 1
The Nature of Geographic Information

Due Dates:
Lab 301: Jan. 30, 2006
Lab 302: Jan. 31, 2006
Lab 303: Jan. 31, 2006
Lab 304: Feb. 3, 2006

(Total of 12 points)

Using the map provided, complete the following steps. Bullet your answers if possible.

1) Record the following information about the map you used (3.5 pts.):
   a) Title of the map
   b) Scale of the map
   c) Date of production
   d) History of revision – Has the map been checked or updated? List all revisions
   e) Map datum
   f) Map projection
   g) Coordinate system, units

2) Give some reasons why recording the above information is useful? (1 pt.)

3) Obtain the locations of Science Hall, Highway 12, and Lake Wingra. Each of the locations should be described in three ways (6 pts.):
   - Latitude/longitude
   - Easting/Northing (UTM)
   - Spatial topology (Hint: use relative location instead of absolute coordinates. See the figures below) Location estimates should adequately describe the position and nature of each feature.

4) Why are the locations of Highway 12 and Lake Wingra more difficult to determine than Science Hall? (1.5 pts.)

5) Scan the landuse map provided with acceptable quality (see instructions provided), save it to your USB drive, and bring it to the next lab session.