

Geographic Information Systems for Resource Management FW5550

Study Guide for Second Hour Exam Fall Semester 2007

Discuss how a geodatabase is structured. What is the difference between a feature dataset and a feature class? How are rasters entered into a geodatabase? What is the advantage of having tables as stand alone features in a geodatabase? What are the advantages of a geodatabase when compared to a coverage or to a shapefile?

What are the components of a cartographically correct map? Can you define all of them and perhaps draw a map illustrating the components?

Explain the following GIS analysis functions. Be sure to note how **both the spatial data and its associated attributes** are acted upon, and how the functions interact with vector data.

- union
- buffer
- identity
- erase
- clip
- dissolve
- merge
- eliminate
- integrate
- append
- explode
- point in polygon intersection
- line in polygon intersection
- polygon in polygon intersection
- generalization functions, such as smooth line

Explain the difference between a single part and a multipart polygon.

Be sure to read the papers dealing with mapping riparian areas.