

**Introduction to Geographic Information Systems and Remote Sensing for
Natural Resource Management
FW3540**

**Study Guide for Second Hour Exam
Spring Semester 2009**

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

- union
- intersection
- buffer
- identity
- erase
- clip
- point in polygon intersection
- line in polygon intersection
- polygon in polygon intersection
- clip
- symmetrical difference

Other terms you should be familiar with:

- field (DBMS)
- record (DBMS)
- sequential query language (SQL)
- principle point
- conjugate principle point
- fiducial marks
- stereo pair and stereo triplet
- flight line
- scale
- leaf on vs. leaf off
- orthophoto
- planimetric
- lowest dimensional geometry

What are the components of a cartographically correct map. Define each of them.

What parts of the electromagnetic spectrum are recorded on color film, on color infrared red film?

What are the 4 types of resolution that must be considered when working with remotely sensed digital imagery?

What is the difference between a sun-synchronous and a geosynchronous orbit?