

**Key Concepts and Terms – Review for First Hour Exam
FW3540 – Spring Semester 2009**

Terms

triangulated irregular network	hypsography
shapefile	spheroid
line	attribute
point	datum (horizontal and vertical)
coverage	geographic coordinate system
polygon	projected coordinate system
topology	digital line graph data (DLG)
raster data	digital elevation model (DEM)
hydrography	contour line
vector data	slope
topography	aspect
pixel	viewshed

Concepts

Discuss the 5 components of a GIS system

What is the difference between a GIS, CAD and DBMS?

What is the difference between a geographic coordinate system and a projected coordinate system?

What is the difference between an explicit and an implicit representation?

Compare how a projection vs. a reprojection is utilized.

What is the difference between discrete and continuous data?

What are 3 types of map projections commonly used for projected coordinate systems?

Discuss the 3 types of classification schemes

Why must classification schemes have classes defined and be mutually exclusive?

What is the difference between discrete and continuous data?

Why is a DEM information presented in a raster format?

This document is a guide for studying for the exam. It is by no means all inclusive. You are responsible for the material presented in the lectures and the assigned readings in the text and from the websites.