

Summary of key topics

definitions of terms (lecture number)

critical spatial thinking (1)

geographic information
science (1)

representation (1)

2.5D (1)

digital (1)

analog (1)

representative fraction (1)

binary (1)

ASCII (1)

short, long integer (1)

single, double precision float
(1)

BLOB (1)

interoperability (1)

geographic information (2)

atom of geographic
information (2)

Digital Earth (2)

discrete object
conceptualization (2)

shapefile (2)

continuous field
conceptualization (2)

six field representations (2)

ontology (2)

database management system
(3)

relational model (3)

table (relation) (3)

common key (3)

tuple (3)

relational join (3)

spatial join (3)

coverage (3)

arc (3)

node (3)

topology (3)

building topology (3)

choropleth map (3)

area-class map (3)

multipoint (4)

multipart polyline (4)

multipart polygon (4)

polyline M and Z (4)

overlaps in the coverage
model (4)

class (4)
subclass (4)
inheritance (4)
behavior (4)
encapsulation (4)
split and merge rule (4)
spatially intensive attribute
(4)
spatially extensive attribute
(4)
hybrid data model (4)
geodatabase (4)
data model (5)
UML (5)
Microsoft Visio (5)
use case (5)

UNETRANS (5)

object in ESRI UML (5)

feature in ESRI UML (5)

abstract class (5)

association (5)

multiplicity (5)

aggregation (5)

composition (5)

association class (6)

DIME, TIGER (6)

geocoding (6)

linear referencing (6)

turntable (6)

network (6)

edge, junction (6)

Tobler's First Law (7)
Thiessen polygon (7)
spatial dependence (7)
spatial autocorrelation (7)
Moran and Geary indices (7)
semivariogram (7)
horizontal and vertical
context (7)
spatial heterogeneity (7)
non-stationarity (7)
place-based analysis (7)
fractal (7)
Richardson plot (7)
metric georeference (8)
locator service (8)
gazetteer (8)

geoparsing (8)

National Grid (8)

global grid (8)

Quaternary Triangular Mesh
(8)