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Part II. Description of the Curriculum Change

- 1. New Syllabus of Record.

Introduction to Geographic Information Systems

Catalog Description:

GE 316 Introduction to Geographic Information Systems 3c-01-3sh

Prerequisite: GE 213, or equivalent, or permission of instructor

Automated methods for creating, maintaining, and analyzing spatial data are presented. Topics include 1) specialized GIS hardware and software, 2) vector vs. raster vs. object oriented spatial data structures, 3) creation and manipulation of geographic data files, 4) data base design and management concepts, 5) spatial analysis, and 6) cartographic design. (Also offered as RP 316; may not be taken for duplicate credit.)

RP 316 Introduction to Geographic Information Systems 3c-01-3sh

Prerequisite: RP 213, or equivalent, or permission of instructor

Automated methods for creating, maintaining, and analyzing spatial data are presented. Topics include 1) specialized GIS hardware and software. 2) vector

3 AutoCAD II
Assignment 2: Drawing in AutoCAD
Read AutoCAD Manuals

4 Theoretical Background, Spatial Databases, Spatial Database Models,
Vector-Raster-Object Oriented Data structures.

must show initiative and creativity. *Your work must exceed simply following directions.*

daily functions associated with maintaining a GIS system, and 5) understand how systems are organized. GIS creation and system design are covered in a sequential course.

Schedule of Activities

Week Activity

1 Introduction. What is it? What good is it? History of GIS. Who Uses GIS?
Applications for GIS. Lab assignment.

Read Tomlinson: "Current and Potential Uses of GIS: the North American Experience" Chaps 1-2

2 Introduction to AutoCAD
Assignment 1: Familiarizing yourself with AutoCAD
Read AutoCAD Manuals

3 AutoCAD II
Assignment 2: Drawing in AutoCAD
Read AutoCAD Manuals

4 Theoretical Background, Spatial Databases, Spatial Database Models,

Assignment 3: More AutoCAD

Read Berry, "It Depends: Implications of Data Structure"

5 Spatial Data Concepts, Data Base Design, Data input, Data Organization
 Working with ArcView. Data Sources.

Assignment 4: ArcView Explorer, Using ArcView

Read Chap 3. Appendix B. Appendix C

