



Louisiana Tech University

Geographic Information Systems Center



Advanced GIS

GIS Certificate of Completion Program
Course 3

Syllabus

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Course Objective:

The purpose of this course is to help you develop further skills in using the ArcGIS tools, start thinking about philosophical issues in GIS, and develop teaching and presentation skills.

The course will be lab centered with emphasis on hands-on work with ArcGIS. Reading material will be provided as background material for each lab. Your lab work is expected to be advanced quality. Maps should reflect thorough preparation, design planning, data analysis, and cartographic presentation.

By completing this course, students will:

- Gain a basic understanding of advanced mapping functions in ARCGIS
- Be introduced to some of the philosophical issues in GIS
- Synthesize GIS analysis techniques to produce a GIS product

Prerequisites:

Data Integration in GIS, course 2 of the program

Basic understanding of ArcGIS

Knowledge of surfing the internet

Course Format:

This is a distance learning course. There are no lectures. Weekly reading and lab assignments will be posted on the University BlackBoard system. Students are responsible for their own computers and ArcGIS software.

No Text Required**Software & Computer Requirements:**

System requirements for ArcGIS are:

Platform:	PC-Intel
Operating System:	Windows NT 4.0 with Service Pack 6a or Windows 2000 or Windows XP (Home Edition and Professionals)
Memory:	128 MB RAM
Processor:	450 MHz

Class Schedule:

Week 1. Personal Geo Database

Week 2. Address Matching

Week 3. Working with Tables

Week 4. GIS Certification issue

Week 5. Literature Review for Term Project

Week 6. Introduction to Writing Scripts

Week 7. Teaching Poster

Week 8. Ethical Issues

Week 9. GIS in Your Life

Week 10. Final Project

Grading:

Lab Exercises	90 Points
Mid Term Exam	30 Points
Final Project	40 Points
<u>Final Exam</u>	<u>30 Points</u>
Total	190 Points

%85 is passing

Assignments can be handed in by email, fax, or the University Black Board System.. **In accordance with the Academic Honor Code, students pledge the following: “Being a student of higher standards, I pledge to embody the principles of academic integrity.”** You are expected to do your own work and not copy the work of someone else.

Instructor:

Dr. David W. Long
School of Forestry
PO Box 10138
Ruston, LA 71272
(318) 257-3714

Office Hours:

I will check the email and Black Board System daily and reply as soon as possible to all requests for help.