Geography 4500 and 550
Introduction to GIS (2003)
Fall, 2003

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Lecture – Tuesdays at 6:00-6:50, EESAT Rm. 125
Labs: – Tues. 7:00-8:50, Wed. 9:00-10:50 or Wed. 3:00-4:50, EESAT Rm. 336
Tutorial/Office Hours: Tues. 3:00 - 5:00 and Thursdays 4:00 - 7:00, CSAM Rm. 336
Meetings by appointment

Materials:
Text - Getting to Know ArcGIS Desktop, Ormsby, et al, ESRI Press (from bookstores or online)
Lab package – from Copy Center
1 CD Read/Write blank disk **** It must be read/write (RW)

Course Objectives:
- To incorporate multiple data types from a variety of sources using an industry-standard GIS software package.
- To understand basic geography and GIS concepts pertinent to building comprehensive analyses of geospatial data.
- To have build a good foundation for advanced GIS and be able to incorporate analyses and mapping into other university courses and research projects.

Class expectations:
- Students must be prepared to spend time outside of class sessions.
- Learning GIS is similar to learning a language. Week-by-week you build a foundation of knowledge that can extend over many years of learning.
- This is a comprehensive class – what you know at the end of the semester depends upon what you learned from the first day of class.

Grades:
2 - Class Exams 10% ea.
1 - Lab Practical 10%
3 - Home work projects, 15% each
1 - Final Project – 25%

You will be given 2 weeks per homework. Final project is due on December 9. Projects WILL NOT BE ACCEPTED beyond the due date.
## Course Schedule

<table>
<thead>
<tr>
<th>Date</th>
<th>Lecture</th>
<th>Lab</th>
<th>Homework</th>
</tr>
</thead>
<tbody>
<tr>
<td>8/26</td>
<td>Intro</td>
<td>Demonstration</td>
<td>Ch. 1-4</td>
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<tr>
<td>9/2</td>
<td>Spatial Data Concepts</td>
<td>Lab 1</td>
<td>Ch. 13</td>
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<tr>
<td>9/9</td>
<td>Projections and Coordinates</td>
<td>Lab 2</td>
<td>Ch. 5-6</td>
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<tr>
<td>9/16</td>
<td>Classifying/Symbolizing Data</td>
<td>Lab 3</td>
<td>Ch 7-8</td>
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<tr>
<td>9/23</td>
<td>Labeling and Querying</td>
<td>Lab 4</td>
<td>Ch 9 &amp; HW</td>
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<tr>
<td>9/30</td>
<td>Tables</td>
<td>Lab 5</td>
<td>Ch 10</td>
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<tr>
<td>10/7</td>
<td>Selecting Features</td>
<td>Lab 6</td>
<td>Practice</td>
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<tr>
<td>10/14</td>
<td>Exam</td>
<td>Practical Exam</td>
<td>Ch 11</td>
</tr>
<tr>
<td>10/21</td>
<td>Data manipulation</td>
<td>Lab 7</td>
<td>Ch 12 &amp; Project</td>
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<tr>
<td>10/28</td>
<td>Data Analysis</td>
<td>Lab 8</td>
<td>Ch 14-15 &amp; HW</td>
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<tr>
<td>11/4</td>
<td>Geodatabase &amp; Editing &amp; GPS</td>
<td>Lab 9</td>
<td>Ch 16</td>
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<tr>
<td>11/11</td>
<td>Editing Continued</td>
<td>Lab 10</td>
<td>Ch 17</td>
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<tr>
<td>11/18</td>
<td>Geocoding</td>
<td>Lab 11</td>
<td>Ch 18-19 &amp; HW</td>
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<td>11/25</td>
<td>Map Making</td>
<td>Lab 12</td>
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<tr>
<td>12/2</td>
<td>Wrap up</td>
<td>Wrap up</td>
<td></td>
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<tr>
<td>12/9</td>
<td>Exam</td>
<td>Final Project Due</td>
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Exercises, homework and the final project will be graded using a checklist so the grading is objective.

**Policy on Students with Disabilities:** The Department of Geography, in cooperation with the Office of Disability Accommodations, complies with the Americans with Disabilities Act in making reasonable accommodations for qualified students with disabilities. Please present your written accommodation request before the 12th class day so that necessary arrangements can be made.
CSAM Lab Issues and Rules

There are two CDs attached to the “Getting to Know” book. One is the exercise dataset and the other an evaluation copy of ArcGIS 8.1. Note: The evaluation copy will not run on Windows XP. If you have Windows 98, NT or 2000 you can install the software on your home computer following instructions included in the book.

**Lab Attendance:** Attendance at labs will not be recorded. You are responsible for all exercises in “Getting to Know” and in the Lab handouts. Labs will assist you with the upcoming exercises. You are responsible for keeping up with the class. It is very difficult to succeed in this class if you fall behind in the exercises.

The Lab midterm will be an in class hands-on practical exam. You will not be able to use any material other than the help section of the software. You are encouraged to do all the exercises, several times would be best. Explore the software so that you understand how GIS works. The practical will require you to use your software skills and problem solving abilities.

**Saving Your Work:** We encourage you to save your work on your RW CD. You may not be able to use your “favorite” computer between classes, but you will have your own data on your CD and can do the work on any machine in CSAM.

**Cell Phones:** Turn them off. You can use your phone, if necessary, in the hallway after the exercise presentation is given at the beginning of the lab.

**Communications:** Please use email, as much as possible, to communicate with the lab instructors.

**CSAM Rules:**
No food or drink next to the computers. If you have drink, put it on the shelves at the back of the class AND DISPOSE OF IT AT THE END OF THE CLASS.

Soft drink cans go into recycling. Printer paper goes into recycling. Thanks.

If you are working after hours, do not prop the door. Only those with the door code are allowed to work in CSAM.

Please do not waste printer paper. Do not print out web stuff and power point presentations from other classes. We do not receive funds to support the printer. You pay fees to the College of Arts and Sciences General Access Labs. If you have large print jobs, please do them in Terrill Hall or the GAB.

CSAM is one of the best labs on the UNT campus. We are able to build this lab through class fees and short course training. If something happens to computers, we have no way to replace them. Please help us to maintain a great facility.

Do not load software or programs.
Web pornography is a private matter, but it will not be tolerated in CSAM. It is distasteful to many people and often causes severe problems with the computers. If you are surfing inappropriate web sites, you will lose after-hours access to CSAM. There is a security camera in the lab that monitors lab activity.

You are welcome to work as long as you like in CSAM but not during other classes. Please be respectful of others.

EESAT Building Hours:
7:00 am – 10:00 pm Mon through Thurs.
7:00 am – 7:00 pm Friday
8:00 am – 7:00 pm Saturday
12:00 pm – 6:00 pm Sunday.

If you are working late at night, do not prop outside doors. Security and personal safety is of concern.

**To Burn a CD in CSAM**

- Click on the “Easy CD creator 5 Basic” on the desktop.
- On the panel that opens, under “Make a Data CD” choose “Data CD Project”
- Browse to the folder that contains the file to be put on the CD on the top half of the project screen; Select it.
- Add it (shown by a down arrow: Click it) and it appears on the down half of the screen that displays the project.
- Click on “Record” (shown by the Big red symbol in the middle)

Note: Formatting the CD for Drag and Drop will make the CD unusable on other machines, unless you install the required software. Instead choose a Data CD project as shown above.