MAKING A GIS ASSIGNMENT

INTRODUCTION

In this course, you have been introduced to many different GIS concepts, tools, and functions, and completed several assignments. Using these experiences, it is now your turn to create an assignment from scratch without any detailed instructions. In order to receive 5% of extra credit, you will create an assignment that fulfills all of the criteria explained below. This assignment is due DECEMBER 6, the last day of lectures, at the beginning of the class. No late assignment will be accepted.

This extra credit opportunity is not only meant to be a simple way simply to boost your overall mark, but it can also serve as an additional preparation for the final exam because you will have to review and use material that will potentially occur on your final exam.

DIRECTIONS

Your task is to create an assignment sheet (similarly to the ones you had to do for this course) that includes at least 5 questions, 1 map, and 5 of the following functions:

- Selection by Attribute
- Selection by Location
- Field Calculation
- Buffer
- Clip
- Intersect
- Union
- Dissolve

You are allowed to use more functions, and you can also have more than 5 questions, but your assignment sheet and answers to the questions should not exceed four pages (excluding maps).

SUGGESTED DATA SOURCES

Your data sources will be any of the data for your assignments, any data you can obtain from other sources (i.e. GIS library, online data), or any data you want to create by yourself (i.e. through digitizing or geocoding). The following is a list of potential useful data sources from lab assignments, but you should not feel restricted to only these sources:

Lab 3:
- Geocoding result of companies
- Toronto roads
- Toronto city boundary
- Stelco area image

Lab 4:
- TTC subway lines and stations
- Toronto wards
- Sidney Smith Hall
- Undergraduate student residences
- GGR 272 survey result
- GTA postal codes

Lab 5:
- Toronto Schools
- Toronto Golf Courses
- Toronto Health Care Facilities
- Population per CT
- Avg. Dwelling Value per CT

DELIVERABLES

You need to hand in the following:

- 1 assignment sheet (including the 5 questions, all the required functions, and all explanatory text).

- 1 answer sheet with the answers to your questions, clearly indicating which question is being answered. You also need to sufficiently explain all the intermediate steps leading to your answers (i.e. query syntax, function parameters, etc.)

- 1 final map that shows clearly the result of the functions that you used in your assignment. Your map needs to be organized and following cartographic principles.

EVALUATION

In order to get full credit, your assignment needs to be clearly organized, thoughtful, and original. You can use the assignments for this course as a guide, but just copying bits and pieces of these assignment and assembling them as your extra-credit assignment will not be sufficient. You can earn up to 5% extra credit.