

GIS551 Term Project Assignment

Fall 2020 Semester

Learning Objectives:

- Carry out the activities as outlined in the specific exercise that you will have selected for your term project. The purpose of asking you to do the exercise is two-fold:
 - a) To perform and understand the capability of the GIS software to carry out some form of geospatial analysis using a specific functionality (or a series of functions) available in the software.
 - b) To demonstrate to your class, the skills set and knowledge that you have gained in this course (this semester) by completing the specific exercise, via an in-class presentation that highlights specific/key aspects of the specific exercise.
- Demonstrate your ability to communicate effectively with professionals in various disciplines, policy makers and the general public at large, on scientific and technical information (in the context of geospatial data analysis) via oral & written communication.

After successfully completing your geospatial analysis project, you will do the following:

Prepare a PowerPoint presentation (30-min. max.) that you will present to your GIS551 class during regular class time during the final two weeks of the semester (i.e., weeks 12 & 13 of the Fall 2020 semester). Please note that classes on the above mentioned dates will begin on time and the last class will end when the last scheduled presentation is completed. This presentation will provide a review of the work that you undertook and it must contain the following sections **(with 30-40 slides max.)**:

1. Project title and clearly defined objectives of the geospatial analysis.
2. A concise description of the study site/area (or alternatively both, a regional and a local map clearly showing the study area).
3. A list of the GIS data types and formats used in the study (be specific, in terms of shapefiles, coverages, aerial photographs, data tables, etc.) and their sources.

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4. A Flow chart (or a series of flow charts) that depict the process of undertaking the geospatial analysis (i.e., steps showing all the tasks performed in a sequential manner from start to finish).
5. All the **maps/charts/tables** generated as part of this exercise (include any important intermediate maps, too – if necessary)
 - Give at least **two** examples of where and how the GIS skills you acquired (as a result of completing the study) can be applied in other environmental “projects” involving the use of GIS
6. Conclusion(s)

Rubric for the Term Project Assignment

1. The evaluation of the GIS551NAA Term Project will be based on the following:
 - i) Quality and content of the Presentation **48 marks**
 - ii) Capability of handling the Q & A session **12 marks**
- TOTAL** **60 marks**

i) Quality and content of the Presentation:

You will outline the following (in depth/detail) your presentation:

1. Project title and objectives **(1+3 marks)**
 2. Study site description or map(s) **(4 marks)**
 3. A list of data types used in the study + their respective sources **(4+4 marks)**
 4. A Flow chart clearly showing the tasks carried out from start to finish **(12 marks)**
 5. All the outputs generated (include any important intermediate maps, Charts, tables, etc.) **(8 marks)**
 6. At least two examples of how the GIS skills that you acquired (as a result of completing this study) can be applied to other environmental projects involving the use of GIS **(8 marks)**
 7. Conclusion **(4 marks)**
- 48 marks**

ii) Capability of handling the Q & A session:

- a) Understanding of the issues **(4 marks)**
 - b) Clarity of your answers **(4 marks)**
 - c) Scientific accuracy and validity of your answers **(4 marks)**
- 12 marks**

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Grading scheme:

4 marks:	Very good
3 marks:	Good
2 marks:	Average
1 mark:	Below average

Should you have any questions regarding this assignment, do not hesitate to contact me ASAP.

Note:

A final soft copy of both, your GIS551 Term Project (which includes an ArcMap file, its accompanying geodatabase(s), pertinent data folders, etc.) and your final presentation (either a PowerPoint or PDF file) must be uploaded to the “GIS551NAA_Lastname” folder (shared with you via OneDrive) before the start of the GIS551 class on the day of your scheduled Presentation. Any submissions received after this deadline will incur a penalty of 50% per day (including the weekend and/or public holidays) unless pertinent documentation (to substantiate the delay) is furnished in a timely manner.