

Senior Sequence GIS Proficiency Assignment

Estimated Time to Complete: 4-6 hours

What this is ...

This GIS proficiency assignment is intended to ensure you have the skills necessary to complete the spatial analysis requirement for your SRP. You will be using the Senior Sequence Tutorial as your template, following the instructions below to modify it for the purposes of the GIS Proficiency Assignment.

You will complete this assignment on your own - you may do so using your own robust computer that has ArcGIS software or you may use the computers in the Data & GIS Lab. If you use the computers in the Lab, you should have a 4GB USB drive that is used solely for the tutorial and associated data.

Note that the Tutorial is composed from several sources and builds upon itself to culminate in a final map product. This means that **you have to do each step** in order to actually complete the Tutorial as you will be producing either data or explanatory text that needs to be present in the final product. Please note that when you are asked to successfully complete an exam in a Virtual Campus module, I will be verifying that you have done so with my administrative access to Virtual Campus courses.

What you'll be doing ...

Over the course of this assignment, you will use the SS Tutorial as your base to complete a mock exercise that is very similar to what you will do for your own SRP. The Tutorial includes:

1. Gaining a basic understanding of what GIS is;
2. Understanding what GIS data is and what makes it different from other data ;
3. Developing a familiarity with the basics of how to use ArcGIS software;
4. Symbolizing GIS data in a meaningful way;
5. Knowing how to get existing GIS data and prepare it for use in ArcGIS software;
6. Learning how to take non-GIS ready data and 'converting it' into GIS data;
7. Editing existing spatial data and creating your own;
8. Conducting spatial analysis;
9. Documenting your workflow for your spatial analysis;
10. Creating a map that is professional and effective in presenting the findings of an analysis.

Deliverables...

As deliverables for this tutorial, you will submit your final map from Step #10 and a Word document with completed answers for **all** steps to Tracey at t2hughes @ ucsd.edu by the completion deadline for the GIS Proficiency Assignment. If you do not do so, you will need to complete the SS Tutorial by its completion deadline.

Modifications of Senior Sequence Tutorial for GIS Proficiency Assignment...

As you can see below, the Proficiency Assignment is essentially the same as the Tutorial – however, it should take significantly less time to complete if you are already starting with a base of GIS knowledge.

- Step 1: No change
- Step 2: No change
- Step 3: You can submit a copy of your completed Learning ArcGIS Virtual Campus class in lieu of completing the module required with this step.
- Step 4: You can submit a copy of your completed Learning ArcGIS Virtual Campus class in lieu of completing the module required with this step.
- Step 5: No change
- Step 6: No change
- Step 7: No change
- Step 8: No change
- Step 9: No change
- Step 10: No change