ES492/592 GIS Applications - Final Lab Portfolio Checklist – Due at Final Exam, Wed. March 21, 2007

In a neat, professional-looking 3-ring binder that is well labeled (tab dividers are nice), include a printout of the following class activities, in the prescribed order:
(on each print out, include the exercise no., your name, and related map information)

In-Class / Lab Exercises / Tutorials

Quick Start Tutorial for Image Analyst
(1) Ex. 1 Image enhancement of Moscow
(2) Ex. 2 Identification of Oil Spill map
(3) Ex. 3 Alignment of seattle road image with seattle feature map
(4) Ex. 4 Image difference / change map (p. 33)
(5) Ex. 4 Image from (p. 39)
(6) Ex. 5 Image mosaic (p. 41)

Tutorial: Attribute Data Entry and Management
(7) Task 1 entering attribute data
(8) Task 2 linking tables
(9) Task 3 joining tables
(10) Task 4 attribute data classification
(11) Task 5 attribute data computation

In-Class Exercise - Geoprocessing Functions with ArcView
(12) print out of clip map (p. 3 of notes)
(13) print out of merge map (p. 3 of notes)
(14) print out of dissolve map (p. 3 of notes)

In-Class Exercise - Editing Polygons Using ArcView
(15) print out of polygon splitting / reshaping exercise

Data Display Tutorial
(16) Task 1 - print out of chloropleth map
(17) Task 2 - print out of map design exercise
(18) Task 3 - print out of text labelling exercise

Data Exploration Tutorial
(19) Task 1 - charts and map (overview)
(20) Task 2 - results of attribute data query
(21) Task 3 - results of relational database query
(22) Task 4 - combining spatial and attribute queries
(23) Task 5 - Raster Data Query

In-Class Exercise on Map Algebra
(24) Print out of ArcView map algebra exercise
(25) Hand-written results of map algebra exercise (grid1xgrid2, grid1/grid2, grid1+grid2, grid1-grid2, log(grid1), grid1x333)

Image Rectification Tutorial
(26) Palm Springs Image Realignment Exercise (p. 136-145 of tutorial)
(27) Resampling of Palm

Tutorial on Avenue Scripting and Spatial Interpolation
(28) Task 1 - grid results of trend.ave script
(29) Task 2 - results from density estimation
(30) Task 3 - grid results from spatial interpolation
(31) Task 4 - grid results from comparison
(32) Task 5 - grid results from kriging

Getting to Know ArcView Tutorial
Print out all projects from the final chapters in the ArcView Tutorial (on each print out, include the exercise no., your name, and related map information)

Chapter 18
Chapter 19
Chapter 20
Chapter 21
Chapter 22
Chapter 23
Chapter 24

FINAL PROJECT CHECKLIST

Task 4 – Subbasin Theme Map
Task 5 – Subbasin Dissolve Map
Task 6 – Subbasin-Watershed-USGS Quad Map
Task 7 – Stream clip/overlay Map
Task 8 – Results of Watershed Measurements (data table)
Task 9 – UTM Map Output
      Quad DRGs
      Quad DEMs
      Vegetation Map
      Soils on DEM
      Bedrock Geology on DRG
      Road map on Geology
      Stream Map on Precipitation
      Stream Map on Vegetation
Task 10 – Digital Orthophoto Quad Maps
Task 11 – Results of elevation data analysis (data table)
Task 12 – Watershed Poster
Task 13 – Data CD with Metadata