ES492/592 GIS Applications - Midterm Lab Portfolio Checklist

In a neat, professional-looking 3-ring binder that is well labeled (tab dividers are nice), include the following class activities, in the prescribed order:

**In-Class / Lab Exercises**

/3  (1) Introduction to Maps (Monmouth Quad)  
/5  (2) Introduction to Raster Grids and Vector Map Elements  
/1  (3) In-Class Exercise: Spatial Scales and Digital Image Resolution  
/1  (4) In-Class Exercise: Measuring Great Circle Distances on the Globe  
/5  (5) Map Projection Exercise  
/3  (6) In-Class Exercise: Geometric Elements and Topology  
/3  (7) In-Class Exercise: Map Scale / Resolution Problem on p. 4 of the "Vector Data Models" /1  (8) In-Class Exercise: RMS Calculations  
/2  (9) In-Class Exercise: DEM problem on p. 3 of the "Raster Data Models" notes  
/5  (10) Class Exercise: Working with Vector and Raster Data (p. 6-9) in "Raster Data structure"  
/3 (11) Introduction to Contouring and Digital Elevation Models (hand out)  
/1  (12) Unknown Map Projection Exercise – Newberry Map – What projection is it?  
/1  (13) Downloading / Importing DRGs and DEMs from GIS web sources (Monmouth quad)

**In-Class / Lab Exercises / Tutorials**

/8 pts total  Using ArcView Spatial Analyst Tutorial  
(1) Ex. 1 elev. grid (p. 10)  
(2) Ex. 1 slope grid (p. 15)  
(3) Ex 2 Results of distance query (p. 19)  
(4) Ex. 3 Population Density data chart (p. 21)  
(5) Ex 3 Population Density map (p. 21)  
(6) Ex. 4 Extrapolated grid (p. 24)

**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 7 /2  
Chapter 8 /3  
Chapter 9 /3  
Chapter 10 /2  
Chapter 11 /3  
Chapter 12 /3  
Chapter 13 /3  
Chapter 14 /3  
Chapter 15 /3  
Chapter 16 /3  
Chapter 17 /3

Total / 70