

- Access <http://www2.bc.cc.ca.us/cs/cmesel/#cs37> for the class website.
- You will find a link to the “**Penn State Edition: Cartographic Designs, Big Picture Design**” module.

You can also access the module directly at:

http://www2.bc.cc.ca.us/cs/cmesel/Carto_Design/CartoDesign_BigPictureDesign.html

- Please be aware that you will need to download data to complete the project.

You will find a link to download the data or you can access the download directly at:

http://www2.bc.cc.ca.us/cs/cmesel/Carto_Design/data/design.exe

- Select the free module, “Big Picture Design”.



- You will complete **Lesson 1** and the **Module Project** of the *Big Picture Design* module.

Lesson 1 - Good design sense

Module Project - Use ArcMap to design and deliver a map



Lesson 1 includes the following goals:

- tailor map designs to suit an intended audience, realizing that multiple designs are possible
- adjust type and line sizes to suit media resolution and viewing distances
- adjust colors to suit different display media
- explain the importance of testing maps in their final media
- establish a visual hierarchy of map elements that matches the map purpose
- make judicious use of decorations so they do not diminish map content
- choose the most appropriate map projection to suit thematic map purpose
- balance empty spaces in map layouts
- avoid unthinking use of boxes around map elements
- make refinements in alignment that clean up a map design
- understand the importance of experimentation and critique in improving map design

• **Complete the following for Lesson 1:**

Topic: Designing for map purpose and medium

Concepts

Designing for the intended audience

Designing for resolution and viewing distance

Designing for final color quality

Exercise

Design for map purpose

Check Point: ☑ **Print and turn in the “Decatur Area” map** (you must also show your ArcMap interface/window so that I can tell that the map was done by you)

Topic: Linking layout to map purpose

Concepts

Map layout using visual hierarchy

Using decorative design elements

Choosing map projections

Exercises

Work with visual hierarchy

Check Point: ☑ **Print and turn in the “Philadelphia, PA” map** (you must also show your ArcMap interface/window so that I can tell that the map was done by you)

Work with decorative design elements and map projections

Check Point: ☑ **Print and turn in the “Irish Archeological Sites” map** (you must also show your ArcMap interface/window so that I can tell that the map was done by you)

Topic: Planning a layout

Concepts

Balancing empty spaces

Refining a layout

Benefiting from layout experimentation and critique

Exercise

Plan a layout

Check Point: ☑ **Print and turn in the “Yellowstone National Park” map** (you must also show your ArcMap interface/window so that I can tell that the map was done by you)

Lesson summary

Lesson self test

Check Point: *Print and turn in the lesson exam*

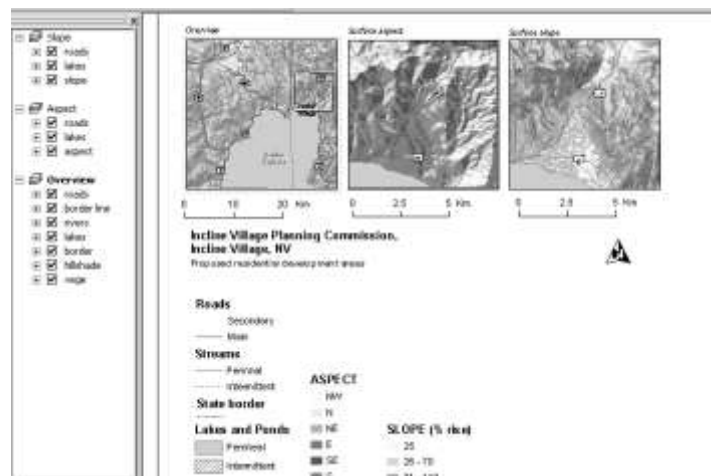
- **Complete** the following for the **Module Project**:

Exercise

Use ArcMap to design and deliver a map

Map requirements (no web publishing as mentioned in the Penn State site):

- Page size of 8.5 x 11 inches (landscape or portrait) with 0.5-inch margins.
 - Map elements should be positioned and sized to create a visual hierarchy that emphasizes a detailed view of the surface slope around northern Route 431.
 - Map elements and open space should be balanced and clear.
- **Download** the design.exe file, unzip the files, and open the map document: **\\design\project\project1.mxd.**



- **Complete up to Step 7** in the exercise:

1. Open the project map document
2. Examine the map
3. Specify the page size and margins
4. Establish the visual hierarchy
5. Apply the hierarchy to all elements
6. Critique your layout
7. Revise your map as necessary

Check Point: *Print and turn in the “Lake Tahoe” final map layout* (you must also show your ArcMap interface/window so that I can tell that the map was done by you)