Digital Photography

- 1. Explain the following:
 - **a.** What are the principles of digital camera construction and how a digital camera works?
 - **b.** What are the effects of light on an image sensor?
 - c. How color images are created from the BW image the sensor captures?
 - **d.** What the camera lens does; what focal length means?
 - e. How are lens aperture and depth of field related?
 - **f.** Describe pixels, image resolution, and image size?
 - g. What are the two types of image compression?
- 2. Name and describe three types of image formats.
- **3.** Give the principle uses of photography:
- **4.** Take pictures illustrating at least eight of the following techniques. Use comparison pictures for illustration.
 - **a.** Framing
 - **b.** Camera steadiness
 - c. Direction of lighting front, side, or backlighting
 - d. Quality of light shade, sunlight, and time of day
 - e. Rule of thirds
 - f. Angle eye level, high and low level
 - g. Level horizon
 - h. Distance from subject fill the frame
 - i. Use of leading lines
 - j. Correct exposure underexposed, overexposed, and correctly exposed
 - **k.** Use of flash proper distance and reflective objects
- **5.** Learn how to place photos in PowerPoint. Create a PowerPoint presentation showing the pictures you took using the above techniques.
- **6.** Using a photo editing program on a computer, show ability to crop, color correct, sharpen, and adjust brightness/contrast to photos.
- 7. Complete at least three creative photographic projects in a photo editing program; such as a CD cover, a photo scrapbook page, a collage, etc.
- **8.** Have a basic understanding of file organization techniques.

Skill Level 2

Original Honor 2007

