

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

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