



## DIGITAL PHOTOGRAPHY

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- 1 Explain the following:
  - a. The principles of digital camera construction and how a digital camera works
  - b. The effect 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
- 2 How are lens aperture and depth of field related?
- 3 Describe pixels, image resolution, and image size
- 4 What are the two types of image compression?
- 5 Name and describe three types of image formats
- 6 Give three principle uses of photography:
- 7 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
- 8 Learn how to place photos in PowerPoint™ or equivalent program. Create a presentation showing the pictures you took using the above techniques.
- 9 Using a photo editing program on a computer, show ability to crop, color correct, sharpen, and adjust brightness/contrast to photos.
- 10 Complete at least three creative photographic projects in a photo editing program, such as a CD cover, a photo scrapbook page, a collage, etc.
- 11 Have a basic understanding of file organization techniques.