



South Central College

# ART 240 Digital Photography 2

## Common Course Outline

### Course Information

<b>Description</b>	This course will introduce the student to both the practical and theoretical application of controlling the digital photographer's most important tool, light. The course will deal with, through the use of light modifying devices and software, how to control the direction, quantity, quality, ratio, and color of light for both outdoor (natural) and indoor (existing) light. Students enrolled in this course will study advanced lighting techniques, contemporary practices, and theories in digital photography. Students will work with intermediate and advanced digital imaging software. This course will emphasize the student's development of individual artistic voice applied in a portfolio of digital photographic images. Students enrolling in this course are required to supply their own digital camera, tripod, image editing software, and lighting equipment as specified in the course syllabus. Image editing software will also be available for use in the open computer lab at South Central College's North Mankato campus. (Prerequisites: ART 140 or instructor approval)
<b>Total Credits</b>	3
<b>Total Hours</b>	48

### Types of Instruction

Instruction Type	Credits/Hours
Lecture	3/48

### Pre/Corequisites

Prerequisite      ART 140 or instructor approval

### Institutional Core Competencies

Critical and Creative Thinking - Students will be able to demonstrate purposeful thinking with the goal of using a creative process for developing and building upon ideas and/or the goal of using a critical process for the analyzing and evaluating of ideas.

### Course Competencies

- 1. Apply proper control of the direction of light in a photographic application.**

**Linked External Standards**

6d - Engage in the creative process or interpretive performance.

**Learning Objectives**

Manipulate light to give the main subject front lighting.

Manipulate light to give the main subject side lighting.  
Manipulate light to give the main subject back lighting.

**2. Apply proper control of the quantity of light in a photographic application.**

**Linked External Standards**

6d - Engage in the creative process or interpretive performance.

**Learning Objectives**

Manipulate light to give the main subject full lighting in a photograph.  
Manipulate light to give the main subject partial lighting in a photograph.  
Manipulate light to give the main subject focused lighting with gobos and snoots.

**3. Apply proper control of the quality of light in a photographic application.**

**Linked External Standards**

6d - Engage in the creative process or interpretive performance.

**Learning Objectives**

Manipulate light to give the main subject low key lighting.  
Manipulate light to give the main subject middle key lighting.  
Manipulate light to give the main subject high key lighting.  
Manipulate light to give the main subject butterfly lighting.  
Manipulate light to give the main subject soft lighting.  
Manipulate light to give the main subject hard lighting.

**4. Manipulate the color of light in a photographic application.**

**Linked External Standards**

6d - Engage in the creative process or interpretive performance.

**Learning Objectives**

Manipulate light by using color filters on a light source to change/correct color balance of a digital image.  
Manipulate light by using camera controls to change/correct color balance of a digital image.  
Manipulate light by using imaging software to change/correct color balance of a digital image.

**5. Control the ratio/contrast of light in a photographic application.**

**Linked External Standards**

6d - Engage in the creative process or interpretive performance.

**Learning Objectives**

Produce a digital photograph with a lighting ratio of 1:1.  
Produce a digital photograph with a lighting ratio of 1:2.  
Produce a digital photograph with a lighting ratio of 1:3.  
Produce a digital photograph with a lighting ratio of 1:4.

**6. Operate electronic strobe systems to produce properly exposed photographic images.**

**Linked External Standards**

6d - Engage in the creative process or interpretive performance.

**Learning Objectives**

Manipulate an electronic strobe's power to modify the output of light.  
Utilize an electronic strobe's guide number to find out its maximum light output.  
Utilize the electronic system of a digital camera to accurately measure and produce the proper light output of an electronic strobe for a given scene.  
Utilize two to three electronic strobes simultaneously to produce a properly exposed photographic image.

**7. Edit digital images with an image editor.**

**Linked External Standards**

6d - Engage in the creative process or interpretive performance.

### **Learning Objectives**

Change the contrast and contrast of a digital image.  
Change the tone curve of a digital image.  
Change the color balance, hue, saturation, and luminance of a digital image.  
Change the gamma of a digital image.  
Edit out unwanted information in a digital image.  
Insert extra information into a digital image.  
Utilize multiple layers in photoshop to create composite images.

## **8. Apply proper digital photographic management.**

### **Linked External Standards**

6d - Engage in the creative process or interpretive performance.

### **Learning Objectives**

Create a proper digital storage area for digital images.  
Organize digital images to provide easy access, exporting, and printing.  
Create proper electronic backups of digital images.

## **9. Manipulate digital images to produce High Dynamic Range Images (HDR).**

### **Linked External Standards**

6d - Engage in the creative process or interpretive performance.

### **Learning Objectives**

Prepare 3-5 photographic images of a scene at different exposures in 1-2 stop increments.  
Produce an initial HDR image with 3-5 photographic images of a scene in preparation for tone mapping and/or exposure blending.  
Produce a final HDR with tone mapping and/or exposure blending.