

# Dakota County Technical College

## VCOM 1580: Introduction to Digital Imaging

### A. COURSE DESCRIPTION

Credits: 2

Lecture Hours/Week: 2

Lab Hours/Week: \*.\*

OJT Hours/Week: \*.\*

Prerequisites: None

Corequisites: None

MnTC Goals: None

This course introduces the student to the technology needed to capture a digital image, manipulate it and then output the image back to a hardcopy. As the technology changes we will incorporate it into this course. Discussions of concepts, philosophy and industry impact of this technology will be held in each class session to help the student to understand how this technology will impact the student's careers and the industry as a whole. Projects will include the operation and discussion of digital cameras, photo CDs, flatbed and slide scanners, Macintosh computers, b/w and color printers and film recorders. Students will use and evaluate a minimum of three different imaging software during the course. Prerequisites: VCOM1000 or instructor approved Macintosh experience.

**B. COURSE EFFECTIVE DATES:** 06/01/2003 - Present

**C. OUTLINE OF MAJOR CONTENT AREAS**

#### **D. LEARNING OUTCOMES (General)**

1. analyze film recorder resolution
2. analyze picture resolution
3. capture digital camera images
4. change color balance
5. demonstrate image rotation
6. demonstrate image sharpening
7. describe image pixels
8. describe methods of image capture
9. diagram digital imaging system
10. digitize a video image
11. download digital image from camera
12. download image file from photo cd
13. exhibit retouching techniques
14. explain video vs digital imagese
15. identify types of computers
16. identify types of output printers
17. interpret digital terminology
18. list digital imaging applications
19. locate image files
20. operate Macintosh computer
21. output a digital image
22. produce a corrected photograph
23. recall resolution terminology
24. research imaging equipment
25. research imaging trends
26. scan a photographic image
27. store a modified digital image
28. use different software programs

#### **E. Minnesota Transfer Curriculum Goal Area(s) and Competencies**

None

#### **F. LEARNER OUTCOMES ASSESSMENT**

As noted on course syllabus

#### **G. SPECIAL INFORMATION**

None noted