



**Triton**  
**COLLEGE**

Triton College  
2000 Fifth Avenue  
River Grove, Illinois 60171

**VIC 213-001**  
**Color Management Systems**

Wednesdays  
5:00 pm - 10:45 pm  
Room 1-133

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## **Course Description**

Color Management Systems VIC 213 ,is designed to introduce the student to the process of managing color on computer monitors, scanners, and a wide variety of output and printing devices. The course will help students develop the skills necessary to use the software and equipment available to match colors between an original image, scanner, monitor, color proof and final press sheet.

## **Classroom Requirements**

Text Book: Understanding Color Management - by Abhay Sharma  
(ISBN# 1-4018-1447-6)

## **General Course Objectives**

Upon successful completion of this course each student will:

1. Demonstrate the ability to use the equipment and materials involved in color management.
2. Demonstrate an understanding of advanced concepts and theory used in developing a color managed system.
3. Demonstrate their ability to work safely in the imaging laboratories.
4. Demonstrate their ability to perform the necessary steps to configure a color managed system.
5. Demonstrate their ability to use the vocabulary used in color management.

## **Examinations**

Two major tests have been scheduled - one at midterm and one at the end of the semester. In addition, six quizzes will be given throughout the course.

## Grade Factors and their Weight Percentages

Homework	10 %
Quizzes	10 %
Mid Term	25 %
Final Exam	25 %
Class Participation	30 %

Satisfactory completion of all Practical Examinations is required to receive a passing grade.

## General Evaluation Procedures

All grades in this course are awarded as percentages. These percentages will range from a low of zero for incomplete, late or undone assignments to a high of 100 % for perfectly done assignments. The percentage range and the Letter grade assigned to each range is as follows:

100 - 90 = <b>A</b>	79 - 70 = <b>C</b>	59 - 0 = <b>F</b>
89 - 80 = <b>B</b>	69 - 60 = <b>D</b>	

To receive a grade of "C": The student must fulfill the minimum course requirements outlined in this syllabus. In addition, all graded course assignments must be completed and turned in to the instructor by the conclusion of the final class session preceding the final examination and a weighted average minimum percentage score of 70% must have been earned.

To receive a grade of "W ": More than three (3) unexcused absences or voluntary withdrawal prior to the semester withdrawal deadline.

To receive a grade of "I": Illness or other extenuating circumstances preventing completion of not more than 25 % of a student's work when the 75 % completed is of average quality or better.

## Academic Honesty

Academic honesty is built on personal commitment, honest work and academic development. It is understood that each student will turn in their own work for each assignment, plagiarism will be administered as defined in the college catalog.

## Attendance

Class Attendance and Participation is expected of all students. If you must be absent from class, please notify the instructor as soon as possible. The instructor will determine when absences become excessive and may take action involving a possible termination from the course.

**COURSE SYLLABUS**  
**VIC 213 COLOR MANAGEMENT SYSTEMS**

**Topical Outline**

Color Space

- Mapping Color Dimensions
- Munsell Color Chart

Tristimulus Data

- Color Gamut
- Three Dimensional Color Models
- Three Dimensional Color Space

CIE Color Systems

- Commission Internationale d'Eclairage  
(International Commission on Illumination)
- CIE XYZ
- Standard observer
- CIE L\*a\*b\*
- CIE LIC\*H\*

CIE Standard Illuminant

- D<sub>50</sub>-5000 Kelvin
- D65- 6500 Kelvin

Spectral Data / Tristimulus Data

- Device Dependence
- Illuminant Dependence
- Device Independence
- Illuminant Independence
- Metamerism

Color Measurement

- Instrumentation
  - Densitometer
  - Colorimeter
  - Spectrophotometer
- Application in the Graphic Arts
  - Variation between devices
  - Predictability
  - Specification
  - Color Management
  - Ink Formulation
  - Press Control
  - Verification

**COURSE SYLLABUS**  
**VIC 213 COLOR MANAGEMENT SYSTEMS**

**Topical Outline**

Color Management  
  Device Calibration  
    Monitor  
    Output Device  
  Device Characterization  
    Scanner  
    Monitor  
    Printer  
    Proofing  
    Press  
  Device Color Space  
    Color Profiles  
    Color Management Work Flow