# CAPITAL COMMUNITY COLLEGE
## COURSE OUTLINE
## *INTRODUCTION to DIGITAL PHOTOGRAPHY*

### SECTION I

**SYSTEM COMMON COURSE NUMBER**: Communication Media COM* 158
**COURSE TITLE:** Introduction to Digital Photography

**CATALOG COURSE DESCRIPTION:** An introduction to digital photography that builds on the fundamental principles of light, exposure, color, and composition. Students will learn about the transition from capturing images on film to acquiring images with digital scanners and cameras; computer-based imaging hardware and software; camera handling and creative controls; file formats and management; image editing and manipulation; and, electronic output options. Students must own a 4 mega pixel (or greater) digital camera with manual, aperture priority and/or shutter priority exposure modes.

**LECTURE HOURS PER WEEK:** 3 **CREDIT HOURS:** 3

**REQUIRED PREREQUISITE:** CSA*105 or CSA*163 or CSA*205. Students must supply their own digital camera with manual, aperture priority and/or shutter priority exposure modes.

### SECTION II

**A. SCOPE:**
This course is an introduction to digital photography including hardware and software, camera handling and creative controls, file formats and management, image editing, manipulation and output options using industry-standard software such as Adobe Photoshop. Through demonstrations and assignments, a survey of imagery and a final portfolio, students will be introduced to the basic vocabulary, concepts, tools and expressive possibilities of digital photography.
**This course fulfills a Designated Core Competency in the area of Appreciation of the Aesthetic Dimensions of Humankind (AD).**
**This course fulfills an Embedded Core Competency in the area of Continuing Learning/Information Literacy (CL).**
Course subject matter will include:

A. Principles of color theory:
    1) Color temperature
    2) White balance
    3) Color saturation
    4) Color filtration
    5) Color combinations
    6) Color space in different media

B. The relationship among photographic principles, digital imaging and computer technology
    1) Terminology common to photography, digital imaging, and computer applications

2) The evolution of digital photography and computer-based imaging
3) Capturing and storing a digital image
4) Digital image file formats
5) Digital image resolution
6) Digital image file compression
7) Preparing digital images for various output media and quality levels

C. Proper operation of image scanners, digital cameras, computer storage devices, and photo editing software
D. Digital asset management
E. Image manipulation and color correction

**B. REQUIRED WORK:** determined by the instructor as described in the course syllabus.

**C. ATTENDANCE AND PARTICIPATION:** Students are expected to attend each class, arrive on time, take exams at the scheduled time, and participate in the learning process. (Specific instructor policies are included on the course syllabus.)

**D. METHODS OF INSTRUCTION:** Each faculty member determines the methods of instruction for the semester. These may include, but are not limited to, lecture, lecture/discussion, hands-on assignments using digital imaging hardware and software, small group collaborative learning, guest speakers, student presentations, on-line assignments using distance learning technology, field trips, and the use of classroom audiovisual and computer-based presentation materials.

**E. OBJECTIVES, OUTCOMES, ASSESSMENT**
The following objectives and outcomes represent the department's core requirements for student achievement.

| **LEARNING OBJECTIVES** | **LEARNING OUTCOMES** | **ASSESSMENT METHODS** |
|---|---|---|
| **To demonstrate an understanding of:** | **Students will:** | **As measured by:** |
| The relationship between key principles of photography and digital imaging | a) Review concepts of lighting, exposure, and image composition (AD 1, 4)<br>b) Explain the differences between film and digital imaging media (AD1, 4) | Written or on-line quizzes, tests, and/or examinations; on-line discussions and chat; class participation; attendance; homework assignments. |
| Principles of color theory | a) Use appropriate tools to adjust color in digital images (AD 4) (CL 2)<br>b) Explain color filtration techniques (AD 4) (CL 2)<br>c) Apply color theory when creating and critiquing digital images (AD 4) (CL 2) | Written or on-line quizzes, tests, and/or examinations; on-line discussions and chat; class participation; attendance; homework assignments. |
| The relationship among photographic principles, digital imaging and computer technology | a) Discuss photographic principles (AD 1, 4) (CL 1, 2)<br>b) Use various computerized imaging hardware and software to suit purpose and task (AD 4) (CL 1, 2) | Written or on-line quizzes, tests, and/or examinations; on-line discussions and chat; class participation; attendance; homework assignments. |

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|---|---|---|
| Proper operation of image scanners, digital cameras, computer storage devices, and photo editing software | a) Scan hard-copy images (CL 1,2 )<br>b) Take original photographs using a digital camera (AD 4) (CL 1, 2)<br>c) Store, copy, and file digital images using various electronic devices (CL 1, 2)<br>d) Learn basic tools found in industry-standard image editing software (principally, Adobe Photoshop) (AD 4) (CL 1, 2)<br>e) Keep a journal to record techniques and settings (AD 1, 4) (CL 1, 2) | Technology-based assignments, written assignments, journal entries |
| Image manipulation and color correction | a) Creatively explore advanced functions of image editing software (AD 4) (CL 1, 2)<br>b) Apply the use of software filters and "plug-ins" (CL 1, 2)<br>c) Thoughtfully critique their own work and that of others (AD 1,2,3,4) (CL 1, 2)<br>d) Record the techniques and file settings used to create photographs (AD 1) (CL 1, 2) | Technology-based assignments, submission of a portfolio of original work, oral/written peer review of work in progress, journal entries |
| Digital asset management | a) Explore organization systems and cataloging techniques (CL 1, 2)<br>b) Add metadata to their own digital images (CL 1, 2) | Homework assignments, evidence of the application of a management system to their own portfolio |
| The relationship among digital imaging, communication media, and the arts | a) Prepare images for different uses and distribution media (AD 4)<br>b) Explore the use of digital images in various communication venues (AD 4)<br>c) Explain the ethical dimensions surrounding the creation, circulation, and interpretation of photographic art (AD 5)<br>d) Explore digital imaging as a form of artistic expression (AD 4)<br>e) Thoughtfully critique their own work and that of others (AD 1, 2, 3, 4)<br>f) Discuss copyright law pertaining to digital media (AD 5) | Journal entries; in-class presentations of original work, publication of original work, participation in public exhibits of student work |

**Core Competency Assessment Artifact(s)**
Assignment(s) from this course may be collected to assess student learning across the school.

**F. TEXTS AND MATERIALS:** College-level textbooks, audiovisual materials and other materials placed in Library reserve for the course. Digital media storage devices.

**G. INFORMATION TECHNOLOGY:** By design, the course must be taught in a computer lab with appropriate digital imaging hardware and software. Students are required to bring and use their own 3 mega pixel (or greater) digital SLR camera with manual aperture priority and/or shutter priority exposure modes.. In addition, students and instructors will need access to audiovisual and computer-based presentation equipment, and online course content delivery systems, to complete course assignments.