



I. COURSE: Digital Photography I.

II. **COURSE DESCRIPTION:** A year course instructing the fundamentals of digital photo imaging. Areas to be covered will include computers and software, digital cameras, image capture, composition, digital input, editing and manipulation, output, archiving, print making and finishing.

III. **PREREQUISITE:** NONE

IV. **COURSE JUSTIFICATION:** Digital photo imaging is, at once, an art and a science that makes available to the dedicated student a venue to express an artistic and/or commercial vision. The goals and objectives of this course of study offer the student an opportunity for creative expression as well as career exploration opportunities.

V. **OBJECTIVES:** Upon completion of this course the student will be able to . . .

- discuss the photographer's role as a media creator and producer.
- describe the hardware and software requirements of digital imaging.
- discuss the guidelines of good photographic composition.
- capture images as digital data.
- process digital data to achieve acceptable output.
- discuss still photographic imaging as fine art and commercial art.
- develop and/or participate in work-based learning experiences.
- demonstrate oral and written communication skills.
- evaluate and demonstrate small business skills and practices.
- support legal and ethical behavior in digital photographic and multi-media imaging.

VI. CONTENT TOPICS:

- A. **SELECTED HISTORY:** Aesthetic, functional, and technical.
- B. **GETTING STARTED:** Equipment, computers, software, materials and procedures.
- C. **CAPTURE:** Cameras, lenses, film, exposure, digitizing and data storage.
- D. **PROCESS:** Digital image manipulation and storage.
- E. **OUTPUT:** Digital print making and multimedia presentation.
- F. **PRINT PRESENTATION:** Mounting and framing.
- G. **BASIC COMPOSITION AND DESIGN:** Simplicity, rule of thirds, framing, mergers, line, texture, shape, light, dynamics and perspective, balance, rhythm, proportion, unity, emphasis, impact.
- H. **Lighting:** Natural, artificial, hard, soft.
- I. **BEHAVIOR:** Ethical conduct, copyright law and work ethic.
- J. **Course work:** Daily preparation and participation, notes, assessment, assignments, weekly faves, tutorials, projects, contests, travel.

Unit 1 – INTRODUCTION – Slide show, photographs, travel, syllabus, expectations, DeWitt Jones movies, other videos, cameras, 1st assignment, weekly faves, review and critique of the students first photographs.

Unit 2 – Computer Basics – Macintosh, boot up basic commands, navigation, folder and file creation, file sharing and management, One Note, One Drive, Mac tutorial and tour, Applications, Lightroom and Photoshop, workspace, tools, menus, clean desktop, work folders, file saving, storage and transfer of images, empty trash daily, shut down, arranging student work space ticket out of class.

Unit 3 – PHOTOGRAPHY HISTORY – Discovery of Photography, important players, dates, eras, evolution of the medium, film, equipment, styles of photography, impact of photography on society, time line of important events in photography.

Unit 4 – CAMERA – Parts / elements, types, formats, lenses, accessories, film, digital, get to know your camera, reading the manual, operation of digital cameras, overhead presentation of camera settings, modes, ISO, WB, Histogram, saving and uploading images, light, CCD and CMOS technology, storage (CDs, DVDs, Blue Ray, hard drives flash drives, cloud), memory cards, dynamic range.

Unit 5 – EXPOSURE – Exposure = Time x Intensity, Shutter Speed > action shots, Aperture > depth of field, ISO > noise, WB > color, histogram, exposure compensation.

Unit 6 – FILE FORMATS – Jpeg, tiff, RAW, png, psd, pdf, purpose, preference, working, archiving. Review computers, cameras, exposure, formats.

Unit 7 – SELECTION TOOLS– Tutorial, three images using the tutorial commands and tools.

Unit 8 – LAYERING – Tutorial, three images using the tutorial commands and tools.

Unit 9 – PHOTO RETOUCHING – Healing tool, clone tool, patch tool, pattern stamp tool, three images using the tutorial commands and tools.

Unit 10 – TESTING – Quizzes and exams, make-up work, evaluations / critiques, computer and lab upkeep and maintenance.

Unit 11 – PHOTO CORRECTION – Tutorial, three images / operation using tutorial commands and tools, color management, balance, levels by the numbers, curves, contrast, density.

Unit 12 – PHOTO MASKS – Tutorial, three images using the tutorial commands and tools.

Unit 13 – OPTIMIZATION – Kitty cat tutorial complete and 25 images completed using the steps of the tutorial saved before and after.

Unit 14 – PROJECT– Image Adjustments

Unit 15 – PROJECT– Edit Transform

Unit 16 – PROJECT– Filters – Using a photograph that has image and detail in all areas, (no featureless sky,water,walls etc.) divide the 11x14 x 300 image into 1 x 1.5 blocks use and label each filter in the menu.

Select a photograph or photographs and use 6 filters either on the one image using selection tools or add layers with filters.

Unit 17 – PROJECT– Principles of Design – Balance (formal / informal), rhythm (repetition, leading the viewers eye), proportion (subject/subject, subject/frame), emphasis / contrast, unity, impact.

- VII. METHODS OF INSTRUCTION:** Short presentations, discussions, critique / reflections, demonstrations, reading assignments video and multimedia tutorials, and hands-on lab and studio work.
- VIII. MEANS OF EVALUATION:** Written and performance exams, print composition, project quality and demonstrated skill of photographic techniques.
- IX. Grading:** Progress reports are issued every 4 weeks and quarterly. Students grades are always available on Infinite Campus : **GRADE A—90-100%—SUPERIOR—4 GRADE POINTS • GRADE B—80-89%—ABOVE AVERAGE—3 GRADE POINTS • GRADE C—70-79%—AVERAGE—2 GRADE POINTS • GRADE D—60-69%—BELOW AVERAGE—1 GRADE POINT • GRADE F—BELOW 60%—FAILURE.** EACH EXAM, PERFORMANCE TEST, IN-CLASS ASSIGNMENT, PROJECT AND DAILY POINTS WILL BE ASSIGNED A VALUE FROM WHICH YOU CAN DETERMINE A % NUMBER. YOUR FINAL GRADE WILL BE DETERMINED FROM THE ACCUMULATION OF THE POINTS IN THESE CATEGORIES.
- X. ATTENDANCE:** We will follow district policy for both absences and tardiness. Please refer to your online student handbook for the current policy.
- XI. COSTS:** There is a \$25 lab fee which covers color digital printing. Pay your lab fees at the bookstore and present the receipt to the instructor.
- XII. EQUIPMENT:** Having access to a digital camera is a major advantage during the course. A limited number of loaner cameras are available. The cost for repair or replacement of damaged, lost or stolen equipment will be the responsibility of the student / parents. Refer to the Equipment Checkout Agreement sent home with student.
- XIII. DRESS CODE/BEHAVIOR:** We will follow district policy in both areas. Profanity will not be tolerated in the classroom. Treat everyone and the facility with respect, make friends, contribute to a positive learning environment, try to be productive each day you are here, and enjoy your photo imaging experience. Poor behavior will receive: First, a mild reminder in class. Second, a student / teacher conference in hallway. Third, a behavior referral and temporary removal from class with administrator / parent / student / teacher conference. Finally, possible permanent removal from class with loss of grade and credit.

XIV. Minimum Expectations in Computer Lab: Wipe down computer screen, keyboard, and mice at least weekly. No food, drink, or gum near the computers Empty computer trash at least weekly. We have had some issues with storage space on the computers, suggestions: students should provide flash drive or hard drive for large storage solutions.

FOOD AND DRINK: Only water in the computer lab, please keep it away from the computers.

XV. DAILY PTS: At the beginning of the each quarter points will be pre-awarded for the entire quarter, for preparedness, participation, attitude, and behavior in class. Those points will be retained throughout the quarter by performing at an acceptable level each day.

XVI. FAVES FOR THE WEEK: On the long day of each week each student will submit their three favorite images from the current week. These images will be displayed in a class critique / review session. Points will be awarded not only for the capture and presentation of the images but for verbal participation in the critique session. During this activity we will discuss the images in terms of the relevant concepts we have studied and practiced and reflect on the photographic merits of our efforts for the week. After the first week of school metadata will be checked.

XVII. OPTIONAL CONTEST ENTRY: Students may submit an image of acceptable quality to be considered for entrance to a contest for extra credit.

Notice of Nondiscrimination

Chandler Unified School District does not discriminate on the basis of race, color, ethnicity, national origin, religion, sex or gender, sexual orientation, disability or age in its programs and activities and provides equal access to the Boy Scouts and other designated youth groups. The following persons have been designated to handle inquiries regarding the nondiscrimination policies:

Compliance officer for Title IX	Sandy Cooper, Assistant Superintendent	Dr. Kymberly Marshall, Director of Student Services
Dr. Craig Gilbert, Assistant Superintendent	1525 W. Frye Rd.	500 W. Galveston St.
1525 W. Frye Rd.	Chandler, AZ 85224	Chandler, AZ 85225
Chandler, AZ 85224	(480) 812-7624	(480) 224-3732
(480) 812-7630		

Aviso de no discriminación

Distrito Escolar Unificado de Chandler no discriminan en base de raza, color, etnia, origen nacional, religión, sexo o género, orientación sexual, discapacidad o edad en sus programas y actividades, proporcionan acceso en condiciones de igualdad a los Boy Scouts y otros grupos de jóvenes. Las siguientes personas han sido designadas para tratar preguntas en cuanto a las políticas de no discriminación:

Funcionario de Cumplimiento de Título IX	Sandy Cooper, Asistente de Superintendente	Funcionario de Cumplimiento para Sección 504
Dr. Craig Gilbert, Asistente de Superintendente	1525 W. Frye Rd.	Dr. Kymberly Marshall, Director de Servicios Estudiantiles
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