

Engineering Technology
Scope and Sequence
Digital Photography 1

Mr. Mazzalunga

Number of Weeks	Topic Sequence	Scope
1	History of Photography	<ul style="list-style-type: none"> • History of Photography • Pinhole Photography • SLR Camera & Film Photography • Traditional Darkroom Process • Quiz on History, Pinhole, SLR Camera, & Darkroom Processes
1	The Digital Camera	<ul style="list-style-type: none"> • Parts of a Camera, Basic Camera Settings, Navigation with the Menu (See document below for more information) • How to take images with the camera • How to transfer images to storage device and computer • Shooting Assignment: Taking, Transferring, and Emailing Images • Quiz on the weekly topics
1	Converting/Managing Digital Files	<ul style="list-style-type: none"> • Types of Digital Files: Raw Images & JPEG images: advantages and disadvantages for each, and how to convert to other types, • Shooting Assignment: Take 7 digital images using AUTO mode and save, organize, and store them according to specifications • Managing digital file data according to date, time, and other areas • Shooting Assignment cont...All files should be emailed to the instructor • Quiz on the weekly topics
1	Advanced Exposure Control	<ul style="list-style-type: none"> • How shutter speed controls light and motion • How aperture controls light and depth of field • How to use shutter speed and aperture together (Reciprocity) • Shooting Assignment: Take 10 images that demonstrate the correct use of shutter speed and aperture together. 5 images using selective focus and 5 images using maximum focus • Quiz on the weekly topics
1	Existing Light and	<ul style="list-style-type: none"> • Color and white balance

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	Flashes	<ul style="list-style-type: none"> • Effects of time of day and weather on exposure, quality and direction of light • Shooting Assignment: Take 14 images that demonstrate the use of good white balance and poor white balance by using the settings on our camera • Quiz on the weekly topics
1	Cropping & Resizing with Photoshop	<ul style="list-style-type: none"> • Shooting Assignment: Students will shoot ten images of their choice using manual mode. They will have to use the proper ISO and white balance setting. • Navigating the Photoshop menu and using the basic selection tools • Opening and basic editing of digital images: cropping, image size, rotation • Editing Images Assignment: In order to edit your images, you must crop them to your liking, and/or resize each image to a 5x7 image. • Quiz on the weekly topics
1	Editing Images with Photoshop	<ul style="list-style-type: none"> • Demonstration on using brightness/contrast, patch tool, sponge tool, dodge tool, and burn tool in Photoshop. After demonstration, students will practice with tools on one of their images. • Demonstration on using healing brush tool, brush tool, pencil tool, blur tool, and sharpen tool in Photoshop. After demonstration, students will practice with tools on one of their images. • Shooting Assignment: Take 10 images that include motion: Blur and Stop Action. Students will email 1 edited motion image to the instructor, along with the original to the instructor. • Quiz on the weekly topics
1	NEF (RAW) and JPEG Editing	<ul style="list-style-type: none"> • Students will take 10 images using the NEF (Raw) + N image quality setting. These images will be used

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		<p>for an editing assignment later in the week.</p> <ul style="list-style-type: none"> • Demonstration and discussion on layers menu and tool usage • Demonstration and discussion on filters menu, and types that can be used • Editing assignment: Choose 1 NEF Raw image to edit white balance with, and choose 1 JPEG image to crop, resize, color correct, and apply a filter to. Send 2 images total to instructor (1 JPEG original image, and 1 edited JPEG image). The Raw images will be checked in person by the instructor, as the file is too large to email. • Quiz on the weekly topics
1	Photographic Composition	<ul style="list-style-type: none"> • Photoschool Handout: Read and complete questions • Read the following web page: http://www.ultimate-photo-tips.com/photograph-composition.html#answer6 • Shooting Assignment: Students will take 2 pictures of each of the following elements; Creating Depth, Lights and Darks, Shapes, Framing, Lines, and Symmetry & Patterns. • Editing assignment: Choose 2 images to color correct, brighten/darken, crop, and resize. Send 2 images total to instructor (1 original image, and 1 edited image). • Quiz on weekly topics
2	Microsoft PowerPoint and Editing	<ul style="list-style-type: none"> • Introduction to PowerPoint: Inserting, Arranging, Resizing, Rotating and Animating Images • Discuss PowerPoint Assignment & Create PowerPoint • Present PowerPoint • Quiz on weekly topics
1	Microsoft Word and Editing	<ul style="list-style-type: none"> • Introduction to Microsoft Word: Inserting, Arranging, Resizing, and Editing Images • Shooting Assignment: Take FOUR Macro images of

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		<p>the objects you selected from the classroom, or brought in from home.</p> <ul style="list-style-type: none"> • Create Microsoft Word Assignment
2	Portrait Photography	<ul style="list-style-type: none"> • Webquest Relating to Portrait Photography • Review Webquest, Discuss Remote Usage for Portrait Image Taking, Discuss Shooting Assignment • Shooting Assignment: Students will take 3 self-portraits of themselves using a remote, and a two light setup. Students will present their original and edited images to the instructor. • Quiz on weekly topics
2	Green Screen	<ul style="list-style-type: none"> • Introduction to Green Screen Photography and Discussion about Shooting Assignment • Demonstrate Removal of Green Screen Process from Images Using PhotoShop and Students Will Practice Using a Sample Image • Review Removal of Green Screen Process and Begin Shooting Assignment: Students will take 5 different images of items of their choice, and will be required to edit and email TWO edited and original images to the instructor. • Quiz on Weekly Topics
2	Sequence Photography	<ul style="list-style-type: none"> • Introduction to Sequence Photography • Demonstrate the Creation of a Sequence Image Using PhotoShop and Students Will Practice Using a Sample Image • Shooting Assignment: Students will take sequence images of items of an object or a person, and will be required to edit and email a sequence image and all original images to the instructor • Quiz on Weekly Topics
1	Printing & DSLR Camera Comparison	<ul style="list-style-type: none"> • Print 4x6 Images • Students will begin a DSLR Camera Activity. The activity will review what a DSLR camera is, the types of sensors used, what type of camera they should

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		buy, and what price range they fall into according the type of photographer they are. <ul style="list-style-type: none">• Review DSLR Camera Activity
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