

FUNDAMENTALS OF PHOTOGRAPHY

COURSE OUTLINE

JOHN GREENGO | PHOTOGRAPHY

Class Introduction

Class Overview .....	.....
Welcome to Photography .....	.....
John Greengo Photography .....	.....
Becoming a Photographer .....	.....

Section 1: The Camera

Camera Types .....	.....
Image Area .....	.....
Viewing System .....	.....
DSLR .....	.....
LCD .....	.....
EFV .....	.....
SLT .....	.....
Rangefinder .....	.....
Hybrid (Optical/Electronic) .....	.....
Other Systems .....	.....
Lens System .....	.....
Mobile Device .....	.....
Point & Shoot (P&S) .....	.....
DSLR .....	.....
Mirrorless .....	.....
Shutter System .....	.....
Leaf Shutter .....	.....
Focal Plane Shutter .....	.....
Electronic Shutter .....	.....
Shutter Speeds .....	.....
Basics .....	.....
Effects .....	.....
Camera/Lens Stabilization .....	.....
Learning Project 2 .....	.....
Quiz: Shutter Speeds .....	.....
Camera Settings .....	.....
File Type .....	.....
White Balance .....	.....
Color Space .....	.....
Drive Mode .....	.....
Buffer .....	.....
Memory Cards .....	.....
Card Formatting .....	.....
Date & Time .....	.....

Firmware .....	.....
Custom Functions .....	.....
Diopter.....	.....

Section 2: The Sensor

Opening .....	.....
The Photographers Life .....	.....
Sensor Size - Basics .....	.....
Sensor Size - Compared .....	.....
Size & Cost .....	.....
Depth of Field .....	.....
Full Frame vs. APS.....	.....
Pixels .....	.....
Quantity & Size.....	.....
Sensor Design.....	.....
ISO .....	.....
Basics .....	.....
Recommended Settings .....	.....
Learning Project 3 .....	.....
Closing .....	.....

Section 3: The Lens

Opening .....	.....
Focal Length.....	.....
Angle of View .....	.....
Examples .....	.....
Human Eye .....	.....
Normal Lens .....	.....
Wide Angle .....	.....
Telephoto .....	.....
Summary .....	.....
Learning Project 4 .....	.....
Quiz: Focal Length .....	.....
Fisheye .....	.....
Tilt Shift.....	.....
Perspective Correction.....	.....
Panorama .....	.....
Focus Control .....	.....
Subject Zone .....	.....
Summary .....	.....

Lens Speed.....	.....
Aperture .....	.....
Depth of Field (DOF) .....	.....
Explanation .....	.....
Equivalent Aperture .....	.....
Examples .....	.....
Learning Project 5 .....	.....
Quiz: Apertures .....	.....
Lens Quality .....	.....
Closing .....	.....

Section 4: Exposure

Equipment Life Cycle.....	.....
Light Meter Basics .....	.....
Metering Modes .....	.....
Histogram .....	.....
Quiz: Histogram .....	.....
Dynamic Range .....	.....
Exposure Modes.....	.....
Program .....	.....
Shutter Priority.....	.....
Aperture Priority .....	.....
Exposure Compensation.....	.....
Manual .....	.....
Sunny 16 Rule .....	.....
Exposure Bracketing.....	.....
Recommendations .....	.....
Exposure Values.....	.....
Setting Priorities .....	.....
Freeze motion .....	.....
Blur Motion .....	.....
Maximize DOF.....	.....
Minimize (Shallow) DOF .....	.....
Maximize Sharpness .....	.....
Tricky Exposures .....	.....
Quiz: Exposure .....	.....
Closing .....	.....

Section 5: Focus

Photo Cliche .....	.....
Focusing Basics .....	.....
Focus Limit Switch .....	.....
Distance Scale .....	.....
Magnify Playback .....	.....
Auto Focus Systems .....	.....
Phase Detection Focusing .....	.....
Contrast Detection Focusing .....	.....
Hybrid AF Systems .....	.....
Dual Pixel CMOS AF .....	.....
Auto Focus (AF) .....	.....
Focus Mode .....	.....
Focus Points .....	.....
Focus Tracking .....	.....
Auto Focus Lock .....	.....
Manual Focus .....	.....
Lenses .....	.....
DSLR Viewfinder .....	.....
DSLR Live View .....	.....
Digital Focus Assistance .....	.....
Magnification .....	.....
Focusing Scale .....	.....
Peaking .....	.....
Dual Image .....	.....
Digital Split Image .....	.....
DLSR Focus Options .....	.....
Mirrorless Focus Options .....	.....
Shutter Speeds .....	.....
Depth of Field (DOF) .....	.....
Variables .....	.....
Quiz: Depth of Field .....	.....
DOF Preview .....	.....
DOF & Focusing Screens .....	.....
Lens Sharpness .....	.....
MTF Chart .....	.....
DXO Mark Ratings .....	.....
Camera Movement .....	.....
Handholding .....	.....
Camera/Lens Stabilization .....	.....
Tripods .....	.....

Advanced Techniques .....	.....
Mirror Lock-up (DLSR).....	.....
Quiz.....	.....
Hyperfocal Distance.....	.....
Quiz.....	.....
Auto Focus Calibration.....	.....
Focus Stacking .....	.....
Post Processing .....	.....
Quiz: Focus Problems .....	.....
Closing .....	.....

Section 6: The Gadget Bag

Camera Accessories .....	.....
Vertical Grips .....	.....
Remotes.....	.....
Memory Cards .....	.....
Batteries.....	.....
Battery Chargers.....	.....
Power .....	.....
Sensor Cleaning.....	.....
Viewing Loop .....	.....
Angle Finder .....	.....
LCD Protection.....	.....
Microphone.....	.....
GPS .....	.....
Underwater .....	.....
Lens Accessories .....	.....
UV Filter .....	.....
Polarizing Filters.....	.....
Neutral Density Filter.....	.....
Graduated Neutral Density Filter.....	.....
Lens Hood.....	.....
Teleconverter (Extender).....	.....
Lens Adaptors & Speed Boosters .....	.....
Lens Cleaning & Storage .....	.....
Macro .....	.....
Macro Lenses .....	.....
Extension Tubes .....	.....
Close-up Filter.....	.....
Macro Rails.....	.....

Flash & Lighting .....	.....
Speedlight Units .....	.....
Off-shoe Cord .....	.....
Diffusers .....	.....
Extenders .....	.....
Brackets .....	.....
Macro Light.....	
Tripods	-
Legs	
Heads.....	
Quick Release	
Level	
Monopods.....	
Stabilization	
Cases	
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 Section 7: Light	
Being a Photographer.....	
Qualities of Light.....	
Natural Light	
Types of Light	
Direct Sunlight .....	.....
Front Light .....	.....
Side Light.....	.....
Back Light.....	.....
Overhead Light .....	.....
Spot Lighting .....	.....
Indirect Sunlight.....	.....
Overcast.....	.....
Open Shade .....	.....
Reflected.....	.....
Mixed Light .....	.....
Sunrise / Sunset .....	.....
Fundamentals.....	.....
Three Peaks.....	.....
Twilight .....	.....
Cloud Light .....	.....
Color Pop.....	.....
Silhouette.....	.....
Starburst .....	.....
Golden Hour .....	.....

Quiz: Light .....	.....
Light Management .....	.....
Natural Light .....	.....
Reflectors & Diffusers .....	.....
Steps to Controlling Light.....	.....
Artificial Light .....	.....
Flash Fundamentals .....	.....
Manual Flash .....	.....
Auto Flash.....	.....
TTL (Through The Lens) Flash .....	.....
Inverse-Square Law .....	.....
Focal Plane Shutter .....	.....
Flash Duration & Power.....	.....
Red Eye .....	.....
Speedlights .....	.....
Built-in Flash .....	.....
Add-on Flash .....	.....
Off-Camera Flash .....	.....
PC & TTL Cords .....	.....
Wireless Flash .....	.....
Transmitter & Receiver.....	.....
Light Modifying Equipment.....	.....
One Flash Setup.....	.....
Multiple Flash Setup.....	.....
Sample Lighting Costs .....	.....
Examples .....	.....
Flash Video .....	.....
Advanced Flash Techniques.....	.....
Flash Duration & Power.....	.....
Front & Rear Curtain Sync .....	.....
High Speed Sync.....	.....
Multi Strobe .....	.....
Closing .....	.....
 Section 8: The Art of Editing	
Intro: Assessments & Goals .....	.....
Set-up .....	.....
Computers .....	.....
Drives .....	.....
Organization .....	.....
Import .....	.....

Organizing.....	.....
Where to Start? .....	.....
Files & Folders .....	.....
Keywords .....	.....
Collections .....	.....
Rank .....	.....
Stars .....	.....
Flags.....	.....
Colors.....	.....
Adobe Lightroom Shortcuts.....	.....
Culling .....	.....
Basics .....	.....
Reasons to Eliminate.....	.....
Reasons to Elevate .....	.....
Eliminate or Elevate? .....	.....
Develop .....	.....
Programs .....	.....
Categories of Development .....	.....
Color & Black and White.....	.....
Technical Corrections .....	.....
Noise.....	.....
Distortion .....	.....
Chromatic Aberrations .....	.....
Vignetting .....	.....
Parallax .....	.....
Sharpening .....	.....
Exposure .....	.....
Distractions .....	.....
Cropping .....	.....
Composition.....	.....
Aspect Ratio .....	.....
Closing .....	.....

Section 9: Composition

Opening.....	.....
Formula for Great Photos.....	.....
Composition Basics .....	.....
Simplify .....	.....
Intrusions .....	.....
Fill The Frame .....	.....
Mystery .....	.....

Work the Scene .....	.....
Composition Video .....	.....
Point of View .....	.....
Better Viewpoint .....	.....
Better Light .....	.....
Better Focus .....	.....
Clean Background .....	.....
Dark Background .....	.....
Light Background .....	.....
Silhouette .....	.....
Unique Perspective .....	.....
Down .....	.....
Up .....	.....
Angle of View .....	.....
Additive Vs Subtractive .....	.....
The Best Story .....	.....
Wide & Tight .....	.....
The Photo Story .....	.....
Compression .....	.....
Wide & Close .....	.....
Subject Placement .....	.....
Rule of Thirds .....	.....
Direction .....	.....
Golden Ratio .....	.....
Horizon Line .....	.....
Symmetry .....	.....
Reflection .....	.....
Balance .....	.....
Framing .....	.....
Shadow Framing .....	.....
Foreground / Background .....	.....
Scale .....	.....
Rule of Odds .....	.....
Bad Composition .....	.....
Multi-shot Techniques .....	.....
Panorama .....	.....
Panorama Stitching .....	.....
Double Exposure .....	.....
High Dynamic Range .....	.....
Focus Stacking .....	.....
Pixel Shift .....	.....
Time-Lapse .....	.....

Selective Cloning (People Filter) .....	.....
Noise Reduction .....	.....
Closing .....	.....
Section 10: Photographic Vision	
Opening .....	.....
Human Vision vs. The Camera .....	.....
The Deceptive Eye .....	.....
Human Vision Advantage.....	.....
Camera Advantage.....	.....
Visual Perception .....	.....
Visual Balance.....	.....
Visual Drama.....	.....
Contrast .....	.....
Sharpness .....	.....
Panning .....	.....
Pan & Zoom .....	.....
Elements of Design .....	.....
Line .....	.....
Diagonal Line.....	.....
Curved Line.....	.....
Leading Line .....	.....
Shape .....	.....
Shape & Shadow .....	.....
Human Shape .....	.....
Gesture .....	.....
Pattern .....	.....
Pattern Breaker.....	.....
Texture .....	.....
Negative Space.....	.....
Black & White.....	.....
Color.....	.....
Basic Color .....	.....
Spot Color .....	.....
Graduated Color .....	.....
Monotone Color.....	.....
Color Matching .....	.....
Complimentary Colors .....	.....
The Photographic Process	
Working the Shot.....	
What Makes a Great Photo?	
Closing: The Moment	

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