

Credit Hours: 3

Contact Hours: This is a 3-credit course, offered in accelerated format. This means that 16 weeks of material is covered in 8 weeks. The exact number of hours per week that you can expect to spend on each course will vary based upon the weekly coursework, as well as your study style and preferences. You should plan to spend 14-20 hours per week in each course reading material, interacting on the discussion boards, writing papers, completing projects, and doing research.

Faculty Information: Faculty contact information and office hours can be found on the faculty profile page.

COURSE DESCRIPTION AND OUTCOMES

Course Description:

In this course, students learn how to document crime scenes such as violent crimes and autopsies, property crimes, and accident scenes using photography to present the specifics of the scene to the jurors in the courtroom. Students examine the principles, theory, techniques and ethics of digital photography as applied in criminal investigation and within the field of forensics. The newest advances in surveillance technology as applied in global investigations will be introduced. Discussions are focused on the use of photographs in court and the testimony of the photography.

Course Overview:

In this course, you will explore the progress of photography from the first pinhole camera to the digital 3D imaging used in forensics and criminal investigations. You will be introduced to forensic photography, including the basic functions of the camera, lenses, and filters. In addition, we will apply the principles of photography to different scenes of crimes, including accidents scenes, arson, and shoe and tire impressions.

We will be discussing about specialized photography such as infrared, ultraviolet, and alternative light sources. Also, you will be presented to the newest technology in surveillance, the legal issues of forensic investigative photography, and learning about expert witness testimony.

Course Learning Outcomes:

1. Discuss the history of use of photography in criminal investigations.
2. Apply the principles of photography directly to crime scene investigation and the digital documentation of evidence.
3. Determine what, why, and how evidence is photographed.
4. Assess different applications of photography in criminal investigations, traffic investigations, evidence recovery, and digital forensics.
5. Analyze ethical issues in investigative photography.

6. Assess how photography bring the crime scene to the courtroom and provides an accurate depiction of the crime to the jurors.

PARTICIPATION & ATTENDANCE

Prompt and consistent attendance in your online courses is essential for your success at CSU-Global Campus. Failure to verify your attendance within the first 7 days of this course may result in your withdrawal. If for some reason you would like to drop a course, please contact your advisor.

Online classes have deadlines, assignments, and participation requirements just like on-campus classes. Budget your time carefully and keep an open line of communication with your instructor. If you are having technical problems, problems with your assignments, or other problems that are impeding your progress, let your instructor know as soon as possible.

COURSE MATERIALS

Textbook (required): Robinson, E. (2016). *Crime scene photography* (3rd ed.). Academic Press. ISBN: 9780128027646

Required:

- Digital camera (\$20-\$60) or smartphone with camera function
- A plastic ruler, a wooden yard measure, and a flashlight (\$10)
- If you opt for a smartphone, you will need apps that provides access to manual camera settings such as:
 - DSLR Camera (iPhone: \$1)
 - Halide (iPhone: \$6)
 - Procam (iPhone: \$9)
 - Manual Camera (Android: \$4)
 - Open Camera (Android: Free)

Also, you will need a smartphone tripod mount such as:

- RetiCAM Smartphone Tripod Mount with XL Conversion Kit (\$20)
- Vastar Universal Smartphone Tripod Adapter (\$7)

COURSE SCHEDULE

Due Dates

The Academic Week at CSU-Global begins on Monday and ends the following Sunday.

- **Discussion Boards:** The original post must be completed by Thursday at 11:59 p.m. MT and peer responses posted by Sunday at 11:59 p.m. MT. Late posts may not be awarded points.
- **Mastery Exercises:** Students may access and retake Mastery Exercises through the last day of class until they achieve the scores they desire.
- **Critical Thinking:** Assignments are due Sunday at 11:59 p.m. MT.
- **Portfolio Milestone:** Assignments are due Sunday at 11:59 p.m. MT.

WEEKLY READING AND ASSIGNMENT DETAILS

Module 1

Readings

- Chapter 1 in *Crime Scene Photography*

Discussion (25 points)

Portfolio Project Reminder

A final Portfolio Project is due at the end of the course. Read the full Portfolio Project description on the Week 8 Assignments page to preview your Portfolio Project assignment. Also, review the final Portfolio Project grading rubric which you can access in the Course Information section.

There are two options to choose from and the final Portfolio Project is due at the end of Week 8. Choose one of the project options. Do not do both assignments. By Week 3, be ready to identify which assignment you are going to complete.

Even though points should not be awarded to preliminary Portfolio Project deliverables in the weeks they are assigned, you may choose to develop Portfolio Project Milestones to be submitted prior to Week 8.

Examples of Deliverables:

- Project topic selection,
- Outlines,
- Rough drafts, and
- Parts of a multi-part final project.

Include the following text (or something similar) at the end of your deliverable description. Use these guidelines for Portfolio Project deliverables in Modules 3, 5, and 6.

Opening Exercises (0 points)

Take the Opening Exercise before reading each week's content to see which areas you will need to focus on. You may take these exercises as many times as you need. The Opening Exercises will not affect your final grade.

Module 2

Readings

- Chapters 2, 4, & 5 in *Crime Scene Photography*

Discussion (25 points)

Critical Thinking Assignment (70 points)

Choose one of the following two assignments to complete this week. Do not do both assignments. Identify your assignment choice in the title of your submission.

Option #1: Depth of Field

This is our first hands-on activity. I am sure you are eager to take out the camera and begin to take images. Use your digital camera, or smartphone with camera. Ensure that the battery is charged, and the storage media is inserted in the camera.

Our first exercise is a depth of field exercise.

We need three items lined up in a row in your driveway or parking lot. It can be three soda cans, three small ceramic pots or any other items. Ensure to place the items in a row behind each other.

Follow the detailed explanation in the module and take the photos. Please refer to the following link as well: <https://www.phototraces.com/b/definition-of-depth-of-field-in-photography/>

While maintaining the same distance to the objects, change the f-stops as indicated in our module. Take two photos of each f-stop.

Download the photos on your computer.

Scenario: As a forensic photographer you are asked to give a presentation about depth of field at your local college.

Option 1: Develop a Microsoft PowerPoint presentation.

Provide speaker notes on each slide. The speaker notes should be 50 to 150 words for each slide. The assignment should be supported by at least two peer-reviewed resources.

Ensure the following information is in your presentation:

- Explain the term depth of field.
- How do you achieve depth of field?
- What are the factors that influence the depth of field?
- Camera information (type of camera, lens, media type, settings, and whether a flash or additional lighting was used).
- Present the photos you took and explain what camera settings you used.
- Evaluate the difference in the quality of the photographs.

Option #2: Analysis of Evidence Photos

You are the supervisor of the crime scene unit in Jackson, TX. Part of your duties are the continuous quality control and training of the CSI personnel. This month, you are evaluating crime scene photos taken at different scenes.

- Examine the presented images and comment on them.
- Are the images good examples of crime scene photos as presented in the module and in the textbook?
- Identify any shortcomings of the photos.
- What are the issues and how would you correct them?

The assignment should be 2-3 pages long with two peer-reviewed resources.

Opening Exercises (0 points)

Take the Opening Exercise before reading each week's content to see which areas you will need to focus on. You may take these exercises as many times as you need. The Opening Exercises will not affect your final grade.

Module 3

Readings

- Chapters 3 & 8 in *Crime Scene Photography*
- Lemasters, T., Johnson, D., & Miller, B. (2018). Laser bullet trajectory photography. *Journal of Forensic Identification*, 68(2), 223–233.

Discussion (25 points)

Critical Thinking Assignment (75 points)

Choose one of the following two assignments to complete this week. Do not do both assignments. Identify your assignment choice in the title of your submission.

Option #1: Crime Scene Photography

Hands-on activity. This week, we are photographing our first crime scene. Ensure that your camera is charged and the storage media (SD card) is in the camera.

You are the crime scene photographer for the Midtown Police Department and respond to a residential burglary.

Scene set up:

Imagine your residence/apartment is the scene of the burglary. Setup a mock scene in your residence/apartment. Determine a point of entry and add evidence such as a burglary tool (screwdriver, crow bar, hammer, etc.), a shoe impression or a piece of jewelry that was taken from the residence and left by the burglar when he fled the scene. Use your imagination in developing the mock burglary scene.

Arrival at the scene and documenting the scene with photos

Photo identifier:

Before we can begin to take photos, we need to develop a photo identifier. Take a piece of paper and a pen or marker and write the following information

- Case number 2018-1234,
- Crime Residential burglary,
- Address make up a fictitious address,
- Date and time add date and time when taking photos, and
- Name of Photographer add your name.

Your first photo will be the photo identifier.

Photographing the scene

Now, you are ready to take the first overall crime scene photos of the exterior of the crime scene. Based on the reading take the following photos:

- Orientation photos of the location of the residence/apartment/duplex in reference to a street signs, mailbox with numerals, or recognizable building such as a Bank or store (photos of the surroundings of the building);
- Exterior photos of the residence including:
 - All four-compass location: north, south, east, and west;
 - Diagonally from each corner of the property;
 - If there is fencing at the back of the residence, ensure that the fence is included in the photos;
 - Photos of the front entrance to the residence;
 - Photos of the side door or rear door of the residence/apartment, if applicable;
 - Look up your location on Google Earth or other website and provide an aerial photo of the location;
 - Overall photos of the burglary tools and additional evidence at the scene; and
 - Overall photos of the location where items were taken from.

Intermediate photos of the burglary scene

After taking the photos of the exterior, we walk into the residence/apartment. Ensure that you take photos of:

- Front entrance and front porch (looking inside the residence and looking outside the residence),
- Hallways in the residence,
- Point of entry (choose a window or sliding glass door), and
- Point of exit (choose a different window or sliding glass door).

Overall photos of the interior burglary scene

Now, we are taking photos of the room where items were taken from and where the burglary tool/evidence was recovered.

Take the following photos

- Overall photos of the room using the 360 degrees and the corner-to-corner method (follow the directions below).

Photograph using two different methods

360 method and the four-compass direction method.

360 method:

You need to mount your camera to the tripod. Place the camera in the center of the room. Ensure that your camera is focused, take photos beginning at the door of the room, then turn your camera on the tripod by 45 degrees, and take the next photo. Follow this movement until you photographed the entire room and your camera points at the door again. You should have taken 8 photos.

If you use the smartphone camera, stand in the center of the room and point the smartphone camera at the door. Then turn in a 45-degree angle and take the next photo. Follow the steps until you are pointing at the door again. You should have taken 8 photos.

Four-compass direction method:

In this method, we take photos from each corner of the room such as the SE corner, NE corner, SW corner, and NW corner. Take a photo of the room from each corner. You should take a minimum of 4 photos.

Throughout documenting the exterior and interior crime scene ensure that you avoid taking photos of people or animals in the scene.

PowerPoint Assignment

Create your PowerPoint using the photographs you have taken. Provide speaker notes on each slide. The speaker notes should be 50 to 150 words for each slide. The assignment should be supported by at least two peer-reviewed resources.

Ensure the following information is in your presentation:

- Introduction to assignment
- Camera information (type of camera, lens, media type, settings, and whether a flash or additional lighting was used)
- Why it is important for a forensic photographer to take overall, medium range, and close-up photographs?
- When documenting the interior of a residence/room, would you use the four-compass method or the 360-degree method? Provide an example for your reasoning.
- What challenges you faced when shooting these photographs?

Create a photo log for the pictures taken of the mock crime scene using the template provided. Insert the photo log to your PowerPoint presentation and post in the course room

Option #2: Crime Scene Photography

Hands-on activity. This week, we are photographing our first crime scene. Ensure that your camera is charged and the storage media (SD card) is in the camera.

You are the crime scene photographer for the Midtown Police Department and respond to a burglary.

Scene set up

Imagine your garage is the scene of the burglary. You come home from work and the garage door is open. You noticed the John Deere riding mower is missing. Setup a mock scene in your garage. Determine a point of entry and add evidence such as a burglary tool (screwdriver, crow bar, hammer, etc.), a shoe impression or any item that the burglar lost when he fled the scene. Use your imagination in developing the mock burglary scene.

Arrival at the scene and documenting the scene with photos.

Photo identifier

Before we can begin to take photos, we need to develop a photo identifier. Take a piece of paper and a pen or marker and write the following information

- Case number 2014-1234,
- Crime Residential burglary,
- Address make up a fictitious address,
- Date and time add date and time when taking photos, and
- Name of Photographer add your name.

Your first photo will be the photo identifier.

Photographing the scene

Now, you are ready to take the first overall crime scene photos of the exterior of the crime scene:

Based on the reading take the following photos:

- Orientation photos of the location of the residence/apartment/duplex in reference to a street signs, mailbox with numeric or recognizable building such as a Bank or store (photos of the surrounding of the building);
- Exterior photos of the residence including:
 - All four-compass locations: north, south, east, and west;
 - Diagonally from each corner of the property;
 - If there is a fencing at the back of the residence, ensure that the fence is included in the photos;
 - Photos of the front entrance to the residence;
 - Photos of the side door or rear door of the residence/apartment, if applicable;
 - Look up your location on Google Earth or other website and provide an aerial photo of the location;
 - Overall photos of the burglary tools and additional evidence at the scene; and
 - Overall photos of the location where items were taken from.

Intermediate photos of the burglary scene

After taking the photos of the exterior, we walk into the residence/apartment. Ensure that you take photos of:

- Front entrance and side entrance (looking inside the garage and looking outside the garage),
- The door leading inside the residence
- Point of entry (choose a window or side door), and
- Point of exit (choose a different window or side door).

Overall photos of the interior burglary scene

Now, we are talking photos of the garage where items were taken and where the burglary tool/evidence was recovered, and lawn mower was taken from.

Take the following photos

- Overall photos of the garage using the 360 degrees and the corner-to-corner method (follow the directions below).

Photograph using two different methods

360 method and the four compass direction method.

360 method

You need to mount your camera to the tripod. Place the camera in the center of the room. Ensure that your camera is focused, take photos beginning at the door of the room, then turn your camera on the tripod by 45

degrees and take the next photo. Follow this movement until you photographed the entire room and your camera points at the door again. You should have taken 8 photos.

If you use the smartphone camera, stand in the center of the room and point the smartphone camera at the door. Then turn in a 45-degree angle and take the next photo. Follow the steps until you are pointing at the door again. You should have taken 8 photos.

Four-compass direction method

In this method, we take photos from each corner of the room such as the SE corner, NE corner, SW corner, and NW corner. Take a photo of the room from each corner. You should take a minimum of 4 photos.

Throughout documenting the exterior and interior crime scene ensure that you avoid taking photos of people or animals in the scene.

PowerPoint Assignment

Create your PowerPoint using the photographs you have taken. Provide speaker notes on each slide. The speaker notes should be 50 to 150 words for each slide. The assignment should be supported by at least two peer-reviewed resources.

Ensure the following information is in your presentation:

- Introduction to assignment
- Camera information (type of camera, lens, media type, settings, and whether a flash or additional lighting was used)
- When documenting the interior of a residence/room, would you use the Four-compass method or the 360-degree method? Provide an example for your reasoning.
- What challenges you faced when shooting these photographs?

Create a photo log for the pictures taken of the mock crime scene using the template provided. Insert the photo log to your PowerPoint presentation and post in the course room

Portfolio Project Milestone (25 points)

Choose one of the following two assignments to complete this week. Do not do both assignments. Identify your assignment choice in the title of your submission.

Option #1: PowerPoint Presentation

Create a PowerPoint presentation for the final portfolio project:

1. Photo identifier.
2. Choose four photos of the exterior of the residence (compass directions, east, north, south, and west).
3. Choose two overall photos of each room inside the residence.
4. Chose close-up photos of the evidence found at the scene.
5. Save the file on your computer and post in the Milestone 1.

Create your PowerPoint using the photographs you have taken. Provide speaker notes on each slide. The speaker notes should be at least 50 words for each slide. The assignment should be supported by at least one peer-reviewed resource such as your textbook.

Option #2: PowerPoint Presentation

Create a PowerPoint presentation for the final portfolio project:

1. Photo identifier.
2. Choose four photos of the exterior of the residence (compass directions, north, east, south, west).
3. Choose four photos of the garage.
4. Chose close-up photos of the evidence found at the scene.
5. Save the file on your computer and post in the Milestone 1.

Create your PowerPoint using the photographs you have taken. Provide speaker notes on each slide. The speaker notes should be at least 50 words for each slide. The assignment should be supported by at least one peer-reviewed resource such as your textbook.

Opening Exercises (0 points)

Take the Opening Exercise before reading each week's content to see which areas you will need to focus on. You may take these exercises as many times as you need. The Opening Exercises will not affect your final grade.

Module 4

Readings

- Chapter 9.2, 9.3, & 9.8 in *Crime Scene Photography*
- Kramer, R. (n.d.). Nighttime accident and crime scene photography "Painting with Light". Retrieved from <https://www.crime-scene-investigator.net/nighttime.html>
- Terill, J. (2016). Five photography terms every crime scene photographer should know. Retrieved from <https://www.carolina.com/teacher-resources/Interactive/five-photography-terms-every-arson-and-crime-scene-photographer-should-know/tr39519.tr>
- Villa, C. (2017). Forensic 3D documentation of skin injuries. *International Journal of Legal Medicine*, 131(3), 751–759.

Discussion (25 points)

Critical Thinking Assignment (75 points)

Choose one of the following two assignments to complete this week. Do not do both assignments. Identify your assignment choice in the title of your submission.

Option #1: Hit and Run

For this assignment, we are photographing a vehicle that allegedly had been involved in a hit and run case.

You are the forensic photographer for Progressive Insurance. You receive a phone call to respond to ABC Towing to photograph a vehicle that allegedly had been involved in a hit and run incident. The vehicle had been found abandoned on the side of the road and towed to the tow yard.

Assignment

Steps to perform this duty:

1. Choose a vehicle for this assignment. (your own, a friend's, or even a rental car).
2. Write a photo identifier (see previous modules).
3. The first photo is your photo identifier.
4. Take notes of:
 - a. Location, physical address;
 - b. Date and time when you begin to photograph;
 - c. Make, model, color, and year of vehicle;
 - d. License plate and Vehicle Identification Number (VIN); and
 - e. Mileage.
5. Using overall photography, take images of:
 - a. Standing in front of the vehicle, take a photo of the front view of the vehicle;
 - b. Standing behind the vehicle, take a photo of the rear view of the vehicle;
 - c. Take an image of the driver's and passenger's side of the vehicle;
 - d. Standing adjacent to the driver's side head light, take an image from that angle;
 - e. Standing adjacent to the passenger's side head light, take an image from that angle;
 - f. Standing at the driver's side rear lights, take an image from that angle;
 - g. Standing at the passenger's side rear lights, take an image from that angle;
 - h. Photograph the inside of all doors;
 - i. Take overall photos of the front seats and back seat bench;
 - j. Take overall photos of any kind of damage on the vehicle; and
 - k. Take overall photos of the trunk.
6. Using medium range photography:
 - a. Take photo of the glove box.
 - b. Take photo of the center console and content.
 - c. Take photos of underneath front seats.
 - d. Take photos of the content of the door pockets.
7. Using close-up photography:
 - a. VIN plate outside the driver's side of the windshield;
 - b. Second VIN plate in the door frame of the driver's door.
 - c. License plate;
 - d. Odometer;
 - e. A/C settings, radio settings and GPS; and
 - f. Any damage on the exterior of the vehicle. Use a ruler to show the size of the damage. If more than one damage, add a number to separate the damages.

PowerPoint Assignment

Create a PowerPoint using the photographs you have taken. Provide speaker notes on each slide. The speaker notes should be 50 to 150 words for each slide. The assignment should be supported by at least two peer-reviewed resources.

Ensure the following information is in your presentation:

- Introduction to assignment
- Camera information (type of camera, lens, media type, settings, and whether a flash or additional lighting was used)
- What method did you use? Overall, medium, or close-up photo?
- Include all vehicle information: mileage, color, make, model, year, 2-door, 4-door, for example.
- Write the report in chronological order. Begin with your arrival on scene to take the photos and end with clearing from the scene.
- What were the lighting and weather conditions?
- What challenges you faced when shooting these photographs?

Option #2: Vehicular Homicide

For this assignment, we are photographing a vehicle that allegedly had been involved in a vehicular homicide case last night. The victim died on scene.

You are the forensic photographer for Progressive Insurance. You receive a phone call to respond to ABC Towing to photograph a vehicle that allegedly had been involved in a hit and run incident. The vehicle had been found abandoned on the side of the road and towed to the tow yard.

Option 2: Photograph the vehicle and develop a Microsoft Word document about your findings.

Steps to perform this duty:

1. Choose a vehicle for this assignment (your own, a friend's, or even a rental car);
2. Begin note taking using provided template;
3. Write a photo identifier (see previous modules); and
4. The first photo is your photo identifier.
5. Take notes of:
 - a. Location, physical address;
 - b. Date and time when you begin to photograph;
 - c. Make, model, color, and year of vehicle;
 - d. License plate and Vehicle Identification Number (VIN); and
 - e. Mileage.
6. Using overall photography, take images of:
 - a. Standing in front of the vehicle, take a photo of the front view of the vehicle;
 - b. Standing behind the vehicle, take a photo of the rear view of the vehicle;
 - c. Take an image of the driver's and passenger's side of the vehicle;
 - d. Standing adjacent to the driver's side head light, take an image from that angle;
 - e. Standing adjacent to the passenger's side head light, take an image from that angle;
 - f. Standing at the driver's side rear lights, take an image from that angle;
 - g. Standing at the passenger's side rear lights, take an image from that angle;
 - h. Photograph the inside of all doors;
 - i. Take overall photos of the front seats and back seat bench;
 - j. Take overall photos of any kind of damage on the vehicle; and
 - k. Take overall photos of the trunk.
7. Using medium range photography:
 - a. Take photo of the glove box.
 - b. Take photo of the center console and content.

- c. Take photos of underneath front seats.
 - d. Take photos of the content of the door pockets.
8. Using close-up photography:
- a. VIN plate outside the driver's side of the windshield;
 - b. Second VIN plate in the door frame of the driver's door;
 - c. License plate;
 - d. Odometer;
 - e. A/C settings, radio settings and GPS; and
 - f. Any damage on the exterior of the vehicle. Use a ruler to show the size of the damage. If more than one damage, add a number to separate the damages.

Written Assignment

Download the photographs to your computer. Write a report for your insurance company about your findings. Create a word document and include no more than 2 photographs per page.

The assignment should be supported by at least two peer-reviewed resources.

Ensure the following information is contained in your report:

- Introduction to assignment
- Camera information (type of camera, lens, media type, settings, and whether a flash or additional lighting was used)
- What method did you use? Overall, medium, or close-up photo?
- Include all vehicle information: mileage, color, make, model, year, 2-door, 4-door, for example.
- Write the report in chronological order. Begin with your arrival on scene to take the photos and end with clearing from the scene.
- What were the lighting and weather conditions?
- What challenges you faced when shooting these photographs?

Opening Exercises (0 points)

Take the Opening Exercise before reading each week's content to see which areas you will need to focus on. You may take these exercises as many times as you need. The Opening Exercises will not affect your final grade.

Module 5

Reading:

- Chapters 3, 6 & 11 in *Crime Scene Photography*

Discussion (25 points)

Critical Thinking Assignment (75 points)

Choose one of the following two assignments to complete this week. Do not do both assignments. Identify your assignment choice in the title of your submission.

Option #1: Shoe Impression at a Burglary Scene

Practical exercise of photographing a shoe impression.

While photographing the exterior of the building at a burglary scene, you notice a shoe impression in the dirt underneath the pried open window which was the point of entry to the residence. You decide to photograph the shoe impression for future examination and possible comparison to the suspect's shoes.

For this assignment, you need the following equipment:

- One sneaker or boot with good sole markings,
- Homemade photo identifier:
 - Case number 2014-1234,
 - Crime Residential burglary,
 - Address make up a fictitious address,
 - Date and time add date and time when taking photos, and
 - Name of Photographer add your name.
- Camera or smartphone with tripod mount,
- Storage media (SD card),
- Tripod,
- Flashlight, and
- Ruler or measuring tape.

Follow these steps for your photograph:

1. Place a shoe impression in the dirt or sand.
2. Ensure the storage media is in the camera and the camera is charged.
3. Mount the camera to the tripod.
4. Place the tripod with camera above the shoe impression.
5. Place a ruler or measuring tape along the shoe impression.
6. Fill in information in the photo identifier.
7. Photograph photo identifier.
8. Focus your camera to ensure you fill the frame and that the entire shoe impression and the ruler is in the image.
9. Take the photo.
10. Use a flash light and shine the light onto the shoe impression.
11. Take the photo.
12. Position yourself that you shade the shoe impression.
13. Take the photo.
14. Evaluate your photos for quality.
15. If necessary, repeat the steps and retake the photos.

If you use a smartphone camera, ensure that you take the image 90 degrees directly above the shoe impression.

The plane of the surface must be parallel to the plane of the camera.

Download your photos to your computer.

PowerPoint Assignment

Create a PowerPoint using the photographs you have taken. Provide speaker notes on each slide. The speaker notes should be 50 to 150 words for each slide. The assignment should be supported by at least two peer-reviewed resources.

Ensure the following information is in your presentation:

- Introduction to assignment
- Camera information (type of camera, lens, media type, settings, and whether a flash or additional lighting was used)
- Explain the process you used to take the images.
- What were the lighting and weather conditions?
- What challenges you faced when shooting these photographs?

Option #2: Shoe Impression at a Stolen Vehicle

Practical exercise of photographing a shoe impression.

As the crime scene photographer of Sun City Police, you are assigned to respond to a scene of a recovered stolen vehicle. Upon arrival on scene, you noticed a shoe impression in the sand next to the driver's door. You decide to photograph the shoe impression for future examination and possible comparison to a suspect's shoes.

For this assignment, you need the following equipment:

- One sneaker or boot with good sole markings,
- Homemade photo identifier:
 - Case number 2018-1234,
 - Crime Residential burglary,
 - Address make up a fictitious address,
 - Date and time date and time when taking picture, and
 - Name of Photographer add your name.
- Camera or smartphone with tripod mount,
- Storage media (SD card),
- Tripod,
- Flashlight,
- Hair Spray, and
- Ruler or measuring tape.

Follow these steps for your photograph:

1. Place a shoe impression in the sand. You can also use a sandbox.
2. Ensure the storage media is in the camera and the camera is charged.
3. Mount the camera to the tripod.
4. Take the hairspray and spray and coat the shoe impression. The hairspray is used to stabilize the impression and to avoid the wind to blow away the sand.
5. Place the tripod with camera above the shoe impression.
6. Place a ruler or measuring tape along the shoe impression.
7. Fill in information in the photo identifier.
8. Photograph photo identifier.
9. Focus your camera to ensure you fill the frame and that the entire shoe impression and the ruler is in the image.
10. Take the photo.
11. Use a flash light and shine the light onto the shoe impression.
12. Take the photo.
13. Position yourself that you shade the shoe impression.

14. Take the photo.
15. Evaluate your photos for quality.
16. If necessary, repeat the steps and retake the photos.

If you use a smartphone camera, ensure that you take the image 90 degrees directly above the shoe impression.

The plane of the surface must be parallel to the plane of the camera.

Written Assignment

Download the photographs to your computer. Write a report for the Sun City Police about your findings. Create a word document and include no more than 2 photographs per page.

The assignment should be supported by at least two peer-reviewed resources.

Ensure the following information is contained in your report:

- Introduction to assignment
- Camera information (type of camera, lens, media type, settings, and whether a flash or additional lighting was used)
- Explain the process you used to take the images.
- What were the lighting and weather conditions?
- What challenges you faced when shooting these photographs?

Portfolio Project Milestone (25 points)

Choose one of the following two assignments to complete this week. Do not do both assignments. Identify your assignment choice in the title of your submission.

Option #1: Window Fingerprint Photography

Hands-on exercise for developing and photographing a fingerprint on a window for the portfolio assignment.

While taking photographs of the interior of the residence, you notice a fingerprint in the middle of the window of the living room. This window was the point of entry. You want to photograph the fingerprint but need to develop the ridge detail to be able to capture a quality image.

You need the following materials:

- Paint brush
- Cocoa powder or crushed pencil lead
- Brown paper bag or a dark piece of paper
- Camera with storage media
- Tripod (optional)
- Photo identifier (homemade like in previous assignments)
- Piece of paper, pen, and a piece of clear tape

Perform the following steps:

1. Choose the room that you had previously identified as the point of entry and place a fingerprint or palm print on your window.
2. Brush cocoa powder or lead powder over the fingerprint on the window to develop the print.
3. Cut a small piece of paper in the size of 1 inch by 1 inch and write the number 1 on the paper.

4. Using scotch tape, attach the number marker next to the fingerprint.
5. On the outside of the window (the other side of where the fingerprint was placed), tape the brown paper bag onto the glass to create a dark background. Your fingerprint should be easily visible.
6. Attach the camera to the tripod.
7. Take a photo of the photo identifier that you filled in with the information such as case number, date, time, location, and name of the photographer.
8. Take a medium range photo of the window showing the fingerprint and the marker 1.
9. Take several close-up photos of the fingerprint. Ensure that you fill the frame and include the marker number. Take at least 3 photos and check the quality. Take more photos if you are not satisfied with the quality of your images.

PowerPoint Assignment

Create your PowerPoint using the photographs you have taken. You should download a minimum of five photos (photo identifier, medium range photo, and 3 close-up photos). Provide speaker notes on each slide. The speaker notes should be at least 50 words for each slide. The assignment should be supported by at least one peer-reviewed resource such as your textbook.

Post in Milestone for Week 5.

Option #2: Fingerprint on Plastic Ziploc Bag

Hands-on exercise for developing and photographing a fingerprint on a plastic Ziploc bag for the portfolio assignment.

While taking photographs of the interior of the garage, you notice a small mirror with a fingerprint on it on top of a cardboard box in the north corner of the garage. You want to photograph the fingerprint but need to develop the ridge detail to be able to capture a quality image.

You need the following materials:

- Paint brush
- Cocoa powder or crushed pencil lead
- Brown paper bag or a dark piece of paper
- Camera with storage media
- Tripod (optional)
- Photo identifier (homemade like in previous assignments)
- Piece of paper, pen, and a piece of clear tape

Perform the following steps:

1. Add a small amount of flour or sugar to a ziplock bag. Place fingerprints on the outside of the bag.
2. Brush cocoa powder or lead powder over the fingerprint on the window to develop the print.
3. Cut a small piece of paper in the size of 1 inch by 1 inch and write the number 1 on the paper.
4. Using scotch tape, attach the number marker next to the fingerprint.
5. Take a photo of the photo identifier that you filled in with the information such as case number, date, time, location and name of the photographer.
6. Take a medium range photo of the bag showing the fingerprint and the marker 1.
7. Take several close-up photos of the fingerprint. Ensure that you fill the frame and include the marker number. Take at least 3 photos and check the quality.
8. Take more photos if you are not satisfied with the quality of your images.

Download the photos onto your computer.

PowerPoint Assignment

Create your PowerPoint using the photographs you have taken. You should download a minimum of five photos (photo identifier, medium range photo, and 3 close-up photos). Provide speaker notes on each slide. The speaker notes should be at least 50 words for each slide. The assignment should be supported by at least one peer-reviewed resource such as your textbook.

Post in Milestone for Week 5. Add speaker notes to each photo.

Opening Exercises (0 points)

Take the Opening Exercise before reading each week's content to see which areas you will need to focus on. You may take these exercises as many times as you need. The Opening Exercises will not affect your final grade.

Module 6

Reading:

- Chapters 8, 9.6, 9.4, & 9.7 in *Crime Scene Photography*
- 3d laser crime scene scanner. (2016). *Mena Report*.
- Milos, N. (2017). It's a bird! It's a plane! No-it's a drone. How privacy laws fare in the age of private-use UAVS. *Practical Lawyer*, 63(3), 31-1.
- Supply of security, fire-fighting, police and defence equipment- Purchase framework agreement procurement of thermal imaging cameras. (2017). *MENA Report*.

Discussion (25 points)

Critical Thinking Assignment (75 points)

Choose one of the following two assignments to complete this week. Do not do both assignments. Identify your assignment choice in the title of your submission.

Option #1: Body Worn Camera

As the police chief of Sun City, CA, you are looking at the implementation of body worn cameras for your officers. To ensure legal and ethical handling of the data of the body worn cameras, you are asked to develop a standard operation policy.

Visit the National Conference of State Legislatures website and read about your state's body worn camera policies and laws.

You may also research a police department that implemented body worn cameras and read their policies. Write a 2-3 page essay that covers key points that should be addressed in the standard operation policy. Do not copy word for word what you find on the website. The assignment should be supported by at least two peer-reviewed resources.

Ensure the following information is contained in your report:

- Duration of recording while on duty
- Maintenance of the body camera and accessories

- Downloading of the data from the camera
- Chain of custody
- Duration of data storage
- Maintenance of the camera equipment and cost

Option #2: Body Worn Camera

As the police chief of Sun City, CA, you are looking at the implementation of body worn cameras for your police officers. You are asking the city council for the funding.

Develop a PowerPoint presentation for the city council members to present the pros and cons of body worn cameras. Ensure to include the following information:

- International application of body cameras
- Use of body cameras in Canada
- Use of body cameras in Great Britain
- Use of body camera in the United States
- Pros and cons of body cameras
- Rationale for implementation
- Privacy issues for community and officers
- Citizen complaint reduction
- Implementation cost of body camera vs cost for law suits
- Cost for initial purchase of body camera and maintenance
- Data storage (hard drives)
- Statistical information about law suits, court cost, and fines due to officer's uses of force
- Argue the reduction of cost for law suits versus body cameras

PowerPoint Assignment

Create a PowerPoint for your presentation to include photographs, graphs, statistical data, and even video clips. Provide speaker notes on each slide. The speaker notes should be 50 to 150 words for each slide. The assignment should be supported by at least two peer-reviewed resources.

Portfolio Project Milestone (25 points)

Choose one of the following two assignments to complete this week. Do not do both assignments. Identify your assignment choice in the title of your submission.

Option #1: Burglary Crime Scene, Tire Impression

Back to our burglary crime scene. You continue to take photographs of the scene and notice a tire impression in the dirt underneath the window at the point of entry. You want to photograph the tire impression for later use of identification of possible suspect's vehicles.

Create a tire impression in dirt at your residence.

For this assignment, you need the following equipment:

- Create a tire impression in the dirt or sand.
- Create a homemade photo identifier

Case number	2014-1234
Crime	Residential burglary
Address	make up a fictitious address
Date and time	add date and time when taking photos
Name of Photographer	add your name

- Camera or smartphone with tripod mount
- Storage media (SD card)
- Tripod
- Flashlight
- Two rulers or measuring tapes

Follow these steps for your photograph:

1. Place a tire impression in the dirt or sand.
2. Ensure the storage media is in the camera and the camera is charged.
3. Mount the camera to the tripod.
4. Place the tripod with camera above the tire impression.
5. Place one ruler or measuring tape along the tire impression to show the length of the impression.
6. Place a second ruler or measuring tape across the tire impression to show the width of the tire. Place ruler at the end of the impression and DO NOT lay inside the impression.
7. Fill in information in the photo identifier.
8. Photograph photo identifier.
9. Focus your camera to ensure you fill the frame and that the entire tire impression and the ruler is in the image.
10. Take the photo.
11. Use a flash light and shine the light onto the tire impression.
12. Take the photo.
13. Position yourself that you shade the tire impression.
14. Take the photo.
15. Evaluate your photos for quality.
16. If necessary, repeat the steps and retake the photos.

If you use a smartphone camera, ensure that you take the image 90 degrees directly above the shoe impression.

The plane of the surface must be parallel to the plane of the camera.

PowerPoint Assignment

Create your PowerPoint using the photographs you have taken. You should download a minimum of five photos (photo identifier, medium range photo, and 3 close-up photos). Provide speaker notes on each slide. The speaker notes should be at least 50 words for each slide. The assignment should be supported by at least one peer-reviewed resource such as your textbook.

Upload the photos in the Milestone.

Option #2: Burglary Crime Scene, Dental Impressions

Back to our burglary crime scene. You continue to take photographs of the scene and notice a piece of bubble gum with a bite marks on a chair in the southeast corner of the garage. You want to photograph the impression for future dental comparison to the suspect.

You need the following material:

- Bubble gum
- Chair
- Camera with storage media
- Tripod (optional)
- Photo identifier (homemade like in previous assignments)
- Ruler or measuring tape
- Create an evidence marker out of folded paper and write number 1 on it

Perform the following steps:

1. Place teeth impressions in bubble gum.
2. Place gum on chair in garage.
3. Take photo of photo identifier.
4. Take overall and medium range of the gum on chair.
5. Place evidence marker number 1 next to the bubble gum.
6. Take overall and medium range photos of the gum.
7. Attach camera to tripod and place above the impression.
8. Place ruler/measuring tape next to the gum.
9. Take closeup photos of the gum with and without marker and ruler/measuring tape.
10. Take several close-up photos. Ensure that you fill the frame and include the marker number. Take at least 3 photos and check the quality. Take more photos if you are not satisfied with the quality of your images.

PowerPoint Assignment

Create your PowerPoint using the photographs you have taken. You should download a minimum of five photos (photo identifier, medium range photo, and 3 close-up photos). Provide speaker notes on each slide. The speaker notes should be at least 50 words for each slide. The assignment should be supported by at least one peer-reviewed resource such as your textbook.

Opening Exercises (0 points)

Take the Opening Exercise before reading each week's content to see which areas you will need to focus on. You may take these exercises as many times as you need. The Opening Exercises will not affect your final grade.

Module 7

Reading:

- Chapters 7 & 8 in *Crime Scene Photography*
- Kula, H. (2018). The spherical revolution for crime scene photography. *Law Enforcement Technology*, 30–31.

Opening Exercises (0 points)

Take the Opening Exercise before reading each week's content to see which areas you will need to focus on. You may take these exercises as many times as you need. The Opening Exercises will not affect your final grade.

Discussion (25 points)

Module 8

Reading:

- Chapters 11 & 12 in *Crime Scene Photography*

Discussion (25 points)

Portfolio Project (275 points)

Choose one of the following two assignments to complete this week. Do not do both assignments. Identify your assignment choice in the title of your submission.

Option #1: PowerPoint Presentation

You are the forensic photographer for the Greatland Sheriff's Office in Small Town, Alabama. On January 3, 2014, you responded to the scene of a residential burglary at 1234 Main Street in Small Town, Alabama. You photographed the scene and wrote your crime scene report.

Today, you receive a subpoena from the 22nd Circuit Court of Alabama, to present your crime scene photos to the Grand Jury hearing in the case of John Thief versus State of Alabama.

Your supervisor, Sergeant Jack Bauer, asks you to prepare a PowerPoint presentation for the Grand Jury hearing including the following information:

- Overall photographs of the exterior of the residence
- Aerial photos of the residence (research on Google Earth or any other map program)
- Medium range photos of the walk-through of the residence
- Medium range photos of the room with the point of entry/exit
- Medium range photos of the physical evidence found in the residence
- Close-up photos of the shoe impression underneath the window
- Close-up photos of the fingerprints on the window
- Property receipt with the chain of custody

Steps for the final portfolio assignment:

1. Bring all photos from the milestones 1, 2, and 3 together in a PowerPoint presentation.
2. Research Google Earth or any other map program and find the aerial photo of the residence and add it to the presentation.
3. Add notes to each photo explaining:
 - When you took the photo (date and time)?
 - What camera/lens/storage media did you use?
 - Did you use a flash?
 - What method of photography did you apply?

4. Add a slide explaining:

- When did you download the photo to the computer?
- When did you burn the photos to a CD?
- When did you turn the photos in to the Evidence custodian?
- Did you maintain a property receipt with the chain of custody? Please fill in the information and add it to the presentation.

Create a PowerPoint using the photographs you have taken. Provide speaker notes on each slide. The speaker notes should be 50 to 150 words for each slide. The assignment should be supported by at least two peer-reviewed resources.

Option #2: PowerPoint Presentation

You are the forensic photographer for the Greatland Sheriff's Office in Small Town, Alabama. On January 3, 2014, you responded to the scene of a residential burglary at 1234 Main Street in Small Town, Alabama. You photographed the scene and wrote your crime scene report.

Today, you receive a subpoena from the 22nd Circuit Court of Alabama, to present your crime scene photos to the Grand Jury hearing in the case of Travis Montgomery versus State of Alabama. The investigation revealed that the homeowner, Mr. Montgomery, was dealing cocaine from his garage. The suspect and burglar, Mr. John Brown, was a customer of Mr. Montgomery and broke into the garage to steal drugs. Mr. Brown was known to chew bubble gum all the time.

Your supervisor, Sergeant Jack Bauer, asks you to prepare a PowerPoint presentation for the Grand Jury hearing including the following information:

- Overall photographs of the exterior of the residence;
- Aerial photos of the residence (research on Google Earth or any other map program);
- Medium range photos of the walk-through of the garage;
- Medium range photos of the garage with the point of entry/exit;
- Medium range photos of the physical evidence found in the residence;
- Close-up photos of the dental impression in the gum found in the garage.
- Close-up photos of the fingerprints on the hand mirror.
- Property receipt with the chain of custody.

Steps for the final portfolio assignment:

1. Bring all photos from the milestones 1, 2, and 3 together in a PowerPoint presentation.
2. Research Google Earth or any other map program and find the aerial photo of the residence and add it to the presentation.
3. Add notes to each photo explaining:
 - When you took the photo (date and time)?
 - What camera/lens/storage media did you use?
 - Did you use a flash?
 - What method of photography did you apply?
4. Add a slide explaining:

- When did you download the photo to the computer?
- When did you burn the photos to a CD?
- When did you turn the photos in to the Evidence custodian?
- Did you maintain a property receipt with the chain of custody? Please fill in the information and add it to the presentation.

Create a PowerPoint using the photographs you have taken. Provide speaker notes on each slide. The speaker notes should be 50 to 150 words for each slide. The assignment should be supported by at least two peer-reviewed resources.

Opening Exercises (0 points)

Take the Opening Exercise before reading each week's content to see which areas you will need to focus on. You may take these exercises as many times as you need. The Opening Exercises will not affect your final grade.

COURSE POLICIES

Grading Scale	
A	95.0 – 100
A-	90.0 – 94.9
B+	86.7 – 89.9
B	83.3 – 86.6
B-	80.0 – 83.2
C+	75.0 – 79.9
C	70.0 – 74.9
D	60.0 – 69.9
F	59.9 or below

Course Grading

20% Discussion Participation
0% Opening Exercises
0% Live Classroom
8% Mastery Exercises
37% Critical Thinking Assignments
35% Final Portfolio Project

IN-CLASSROOM POLICIES

For information on late work and incomplete grade policies, please refer to our [In-Classroom Student Policies and Guidelines](#) or the Academic Catalog for comprehensive documentation of CSU-Global institutional policies.

Academic Integrity

Students must assume responsibility for maintaining honesty in all work submitted for credit and in any other work designated by the instructor of the course. Academic dishonesty includes cheating, fabrication, facilitating academic dishonesty, plagiarism, reusing /repurposing your own work (see CSU-Global Guide to Writing & APA for percentage of repurposed work that can be used in an assignment), unauthorized possession of academic materials, and unauthorized collaboration. The CSU-Global Library provides information on how students can avoid plagiarism by understanding what it is and how to use the Library and internet resources.

Citing Sources with APA Style

All students are expected to follow the CSU-Global Guide to Writing & APA when citing in APA (based on the most recent APA style manual) for all assignments. A link to this guide should also be provided within most assignment descriptions in your course.

Disability Services Statement

CSU-Global is committed to providing reasonable accommodations for all persons with disabilities. Any student with a documented disability requesting academic accommodations should contact the Disability Resource Coordinator at 720-279-0650 and/or email ada@CSUGlobal.edu for additional information to coordinate reasonable accommodations for students with documented disabilities.

Netiquette

Respect the diversity of opinions among the instructor and classmates and engage with them in a courteous, respectful, and professional manner. All posts and classroom communication must be conducted in accordance with the student code of conduct. Think before you push the Send button. Did you say just what you meant? How will the person on the other end read the words?

Maintain an environment free of harassment, stalking, threats, abuse, insults, or humiliation toward the instructor and classmates. This includes, but is not limited to, demeaning written or oral comments of an ethnic, religious, age, disability, sexist (or sexual orientation), or racist nature; and the unwanted sexual advances or intimidations by email, or on discussion boards and other postings within or connected to the online classroom. If you have concerns about something that has been said, please let your instructor know.