



## Overview

This assignment focuses on mastering the Exposure Triangle by utilizing aperture and shutter priority modes to control brightness and depth of field or motion. Students will learn to balance exposure settings effectively while understanding the impact of their choices on the final image.

## Learning Objectives

- Understand the roles of aperture and shutter speed in the exposure triangle.
- Effectively use aperture priority and shutter priority modes to achieve desired effects.
- Learn to assess and adjust exposure settings based on lighting conditions.

## Related Reading

Before you start, read these related blog posts to deepen your understanding:

<a href="#">What Is Exposure In Photography</a>	<a href="#">What Is Iso In Photography</a>	<a href="#">What Is Shutter Speed</a>
<a href="#">What Is Depth Of Field</a>	<a href="#">What Is Manual Exposure In Photography</a>	<a href="#">What Is Dynamic Range In Photography</a>

## Before You Shoot

- Ensure your camera is fully charged and has a memory card inserted.
- Familiarize yourself with your camera's exposure modes, particularly aperture and shutter priority.
- Set your ISO to a fixed value of 200 for consistent exposure results.
- Select a location with varied lighting conditions to practice exposure adjustments.
- Prepare a notebook or digital device to record your settings and observations.

## Assignment Tasks

1. Use aperture priority mode at f/2.8 with ISO 200 fixed, allowing the camera to set shutter speed, and photograph a subject with a blurred background.
2. Set your camera to shutter priority mode at 1/500s with ISO 200 fixed, letting the camera adjust the aperture, and capture a moving subject to freeze the action.
3. Shoot a series of images using aperture priority mode at f/4, capturing the same scene with varying distances to see the effect on depth of field.
4. In shutter priority mode, set a speed of 1/60s with ISO 200 fixed, and photograph a scene in low light to observe how the camera adjusts the aperture.
5. Use aperture priority mode at f/11 with ISO 200 fixed, capturing landscapes to achieve maximum depth of field, and note the sharpness of foreground and background.
6. Take a sequence of images using shutter priority mode at 1/30s with ISO 200 fixed, photographing a flowing stream to capture the smoothness of the water.

## Stretch Tasks

- Challenge yourself to shoot in varying lighting conditions, adjusting exposure compensation while maintaining fixed ISO 200 to understand its effect.
- Create a photo series that illustrates the impact of different shutter speeds on the same subject, while using ISO 200 in your settings.



## DO / DON'T

### DO

- ✓ Do experiment with different focal lengths while using aperture priority mode to see how it affects depth of field.
- ✓ Do check your histogram after each shot to ensure proper exposure and avoid clipping.
- ✓ Do adjust your composition based on the aperture setting to enhance the visual impact.
- ✓ Do practice using exposure compensation to fine-tune your images in challenging lighting.
- ✓ Do keep a record of your settings and outcomes to track your progress and learning.

### DON'T

- ✗ Don't switch to manual mode; stick to aperture or shutter priority for this assignment.
- ✗ Don't ignore the histogram; always check it to avoid blown highlights or lost shadows.
- ✗ Don't shoot in bright sunlight without considering exposure compensation; it could lead to overexposed images.
- ✗ Don't forget to adjust your composition based on the depth of field created by your aperture setting.
- ✗ Don't rush; take your time to observe how different settings affect your images before shooting.

## Reflection Questions

- How did using aperture priority mode change your approach to composition?
- What challenges did you face when using shutter priority mode, and how did you overcome them?
- In what ways did your understanding of exposure expand through this assignment?
- How did you feel about the results when you adjusted exposure compensation, and why?

## Technical & Creative Focus

### Technical:

- Use the histogram to check for clipping in highlights and shadows after taking a shot.
- Experiment with different aperture values to see the effect on depth of field.
- Adjust exposure compensation to fine-tune brightness while shooting in priority modes.
- Practice switching between different metering modes to see how it affects exposure.
- Understand how light conditions (bright vs. low light) impact your choice of priority mode.

### Creative:

- Consider how depth of field can influence the mood of your photographs.
- Use shutter speed creatively to convey motion or freeze action in your shots.
- Explore different compositions that highlight your chosen aperture or shutter speed.
- Think about storytelling through exposure; how do your settings impact the narrative?
- Experiment with backlighting and silhouettes to see how exposure affects your subject.