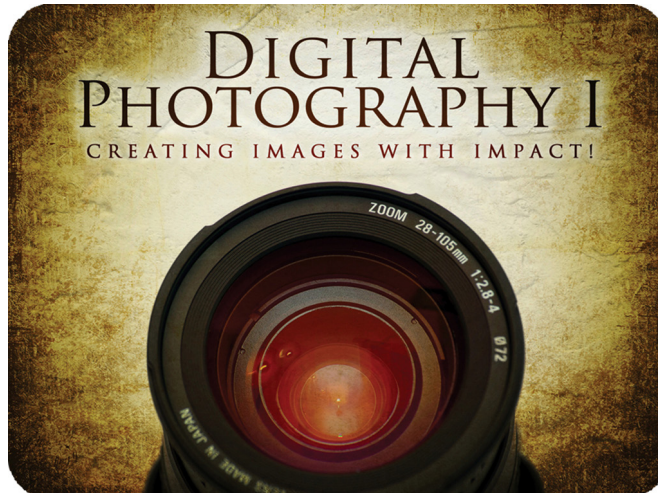




eDynamicLearning

— CAREER & ELECTIVE COURSES —



Course Syllabus



Course Code: EDL014

Digital Photography I: Creating Images with Impact!

Course Description

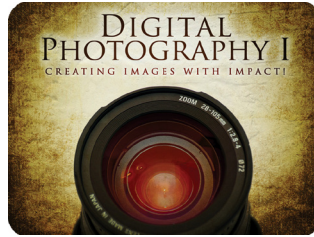
Have you ever wondered how professional photographers manage to take such sensational pictures? How are they able to find just the right way to capture an image or moment in time? Perhaps you've even wondered why your own pictures don't meet that standard. Digital Photography I: Creating Images with Impact! will answer these questions and help you understand more about the basics of photography. Learning about aperture, shutter speed, lighting, and composition is key for any serious photographer and will help you gain the confidence and knowledge you need to become one. You will not only follow photography through its history but also gain a basic understanding of camera functions, techniques and what it takes to shoot quality portraits, close-ups, action shots, and landscapes.

Required Materials

- Manual camera or digital camera with manual settings (the camera needs to allow for the mode, shutter speed, and aperture to be adjusted)
A Smartphone may be used for most required tasks, however, appropriate applications will need to be installed to allow the student to make the necessary adjustments to the camera mode, shutter speed, and aperture.
- Tripod (or necessary item(s) to create a stable foundation such as a table)
- Reflector (white paper, poster board, sheets, or a wall can also serve as a reflector)
- Photo editing software
- Access to a slideshow application, such as PowerPoint

Table of Contents

Lesson 1: Introduction to Photography	3
Lesson 2: The History of Photography	4
Lesson 3: Aperature and Shutter Speed	5
Lesson 4: Composition	6
Lesson 5: Lighting	7
Midterm Exam	8
Lesson 6: Special Techniques	9
Lesson 7: People	10
Lesson 8: Landscapes and Places	11
Lesson 9: The Close-Up	12
Lesson 10: Documentary and Action	13
Final Exam	14



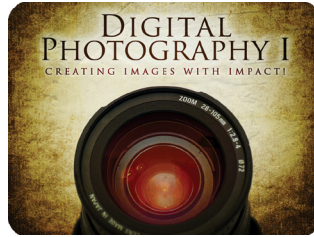
Lesson 1: Introduction to Photography

Lesson Summary

In this unit, we will examine the basic operation of cameras and how images are created on film or through a digital sensor. We will learn more about some of the different types of cameras and the differences in operation between these types. In addition, we will discuss basic photography terminology and examine the basic features that appear in many cameras today.

Learning Objectives

- Discuss how cameras work.
- Learn what happens inside the camera when you take a picture.
- Investigate how an image is created by the camera.
- Learn some of the basic photography and camera terminology.
- Examine how to construct a simple pinhole camera home.



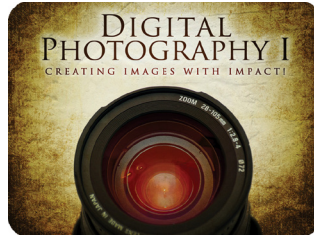
Lesson 2: The History of Photography

Lesson Summary

In this unit, we will explore the history of photography and the people who have made an impact on the technology and development of photography. In doing so, we will consider some of the basic elements of photography that were known before cameras were developed and discuss how these elements came together in the nineteenth century to create photographs. We will look at some of the developments that occurred throughout the nineteenth and twentieth centuries and how these developments shaped the ways that cameras worked and photography in general. Finally, we will explore the changing world of stock photography.

Learning Objectives

- Learn about pinhole cameras and how they were used before modern photography.
- Discuss the development of the first camera in the early nineteenth century.
- Investigate some of the advances that were made to cameras and photograph production through the nineteenth and early twentieth centuries.
- Examine the development of digital cameras.
- Discuss the changes in the stock image industry.



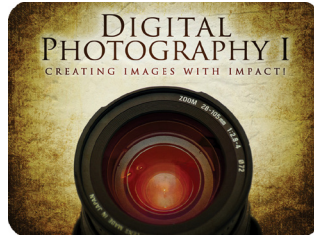
Lesson 3: Aperture and Shutter Speed

Lesson Summary

In this unit, we will discuss the use of aperture and shutter speed settings. We will learn how these settings are measured and how changing these measurements can change the photograph. We will discuss how these settings influence each other. We will also discuss some of the common camera modes and examine how the aperture and shutter speeds are set in these modes. Finally, we'll examine how aperture and shutter speed can be used to create nighttime photographs.

Learning Objectives

- Understand aperture and shutter speed.
- Discuss how different aperture and shutter speed settings can influence a photograph.
- Examine how aperture and shutter speed settings influence each other.
- Investigate some of the common camera modes.
- Discuss how aperture and shutter speed can be used to create nighttime photographs.



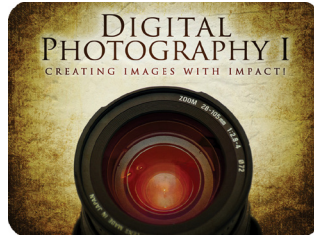
Lesson 4: Composition

Lesson Summary

In this unit, we will discuss some of the guidelines and “rules” for composition in photography. We will discuss guidelines such as the “Rule of Thirds,” framing, and active space, among other composition tips. We will address each of the guidelines and when they are most useful for photographers. We will also examine instances where breaking the rules will result in a better photograph.

Learning Objectives

- Discuss composition and how it applies to photographs.
- Examine some of the common “rules” of photography composition.
- Investigate how the “rules” can improve photographs.
- Discuss how and when to break the “rules” of photography composition.



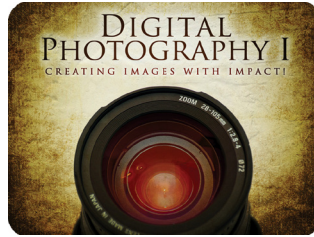
Lesson 5: Lighting

Lesson Summary

In this unit, we will discuss lighting in photography and why it is important to pay close attention to this element. We will consider both natural lighting and artificial lighting, including some of the advantages and disadvantages of both. We will discuss how the direction of light on the subject and the time of day can affect the lighting of outdoor photographs. We will also learn more about the lighting equipment that studio photographers use.

Learning Objectives

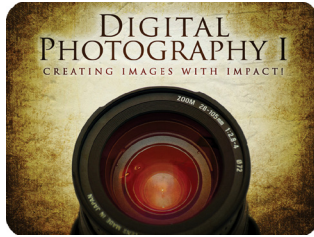
- Discuss the importance of light when taking photographs.
- Examine the advantages and disadvantages of natural and artificial lighting.
- Investigate some tips and techniques for using light in outdoor photographs.
- Learn about the lighting equipment and accessories for studio photography.
- Discuss some tips and techniques for studio lighting.



Midterm Exam

Learning Objectives

- Review information acquired and mastered from this course up to this point.
- Take a course exam based on material from the first five units in this course (Note: You will be able to open this exam only one time.)



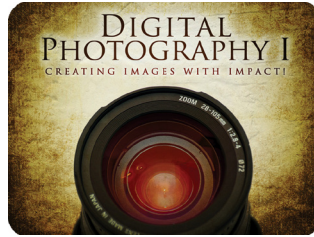
Lesson 6: Special Techniques

Lesson Summary

In this unit, we will discuss special techniques that can be used to create dramatic photographs. We will examine the use of filters and how these camera accessories can be used to change a photograph and enhance the colors. We will also investigate the traditional black and white photograph, looking at some of the techniques that increase the dramatic feel of black and white photography.

Learning Objectives

- Discuss the use of filters in photography.
- Examine the fundamentals of black and white photography.
- Learn some tips to help improve black and white photographs.
- Investigate how to create panoramic photographs.
- Learn tips and techniques for capturing firework photographs.



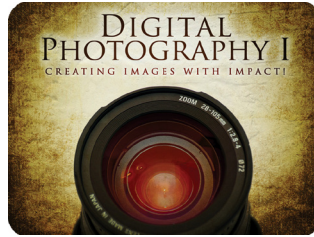
Lesson 7: People

Lesson Summary

In this unit, we will discuss photographing people. From the earliest cameras, photographers have tried to capture the likeness and individuality of people. Today, this process is easier than ever with cameras that allow us to take multiple photographs within a short amount of time. We will discuss tips and techniques for creating portraits of individuals. We will also discuss some ways of photographing children and groups of people.

Learning Objectives

- Discuss portrait photography.
- Examine tips on taking portraits.
- Learn tips and techniques for photographing children.
- Investigate how to take group photographs.
- Discuss some of the arrangements that can be used for large group formal photographs.



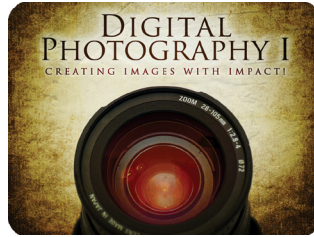
Lesson 8: Landscapes and Places

Lesson Summary

In this unit, we will explore the area of landscape photographs. We'll discuss some general tips for photographing landscapes and examine the best ways to photograph different types of landscapes. In particular, we will look at tips and techniques to photograph forests, coasts, deserts, plains, and mountains.

Learning Objectives

- Learn about the different types of landscape photography.
- Discuss some of the challenges in taking landscape photographs.
- Examine some general tips for taking landscape photographs.
- Discuss the importance of focal points in landscape photography.
- Investigate how to approach different types of landscapes.



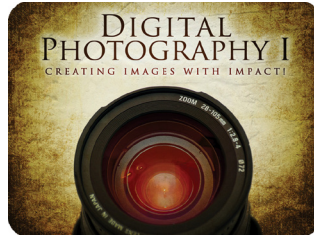
Lesson 9: The Close-Up

Lesson Summary

In this unit, we will examine close-up, or macro, photography. This type of photography seeks to emphasize and highlight small items and details that are often missed by the naked eye. True macro photography results in a 1:1 life-size magnification of the object being photographed. However, there are also other ways to obtain macro-like images without spending several thousand dollars on a camera lens. We'll discuss some of the basics of macro photography, the equipment and settings that are generally used, and how to approach photographing popular macro subjects.

Learning Objectives

- Learn about macro photography.
- Discuss different equipment and accessory options to use in creating macro photographs.
- Discuss the basic techniques of macro photography.
- Investigate some popular topics for macro photography.
- Examine how best to take macro photographs of flowers and insects.



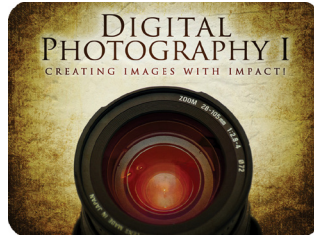
Lesson 10: Documentary and Action

Lesson Summary

In this unit, we will examine the areas of action and documentary photography. In particular, we will discuss techniques for taking sports photographs and look at the technique of panning, which is used to photograph moving objects. We will also discuss photographing animals, including pets and wildlife. Finally, we will turn our attention to a brief discussion on documentary photography and examine some tips for this area.

Learning Objectives

- Discuss tips and techniques for taking sports photographs.
- Learn the basics for the technique of panning moving subjects.
- Discuss tips on photographing pets.
- Examine wildlife photography and the basics of capturing wildlife on “film.”
- Investigate documentary photography and how best to approach this area of photography.



Final Exam

Learning Objectives

- Review information acquired and mastered from this course up to this point.
- Take a course exam based on material from units six to ten in this course – the last five units. (Note: You will be able to open this exam only one time.)