

## 4.1: Introduction

### Astronomy Laboratory 4 – About Your Eyes

#### Module Introduction



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The eye not only allows us to see our Universe, but to determine color, shapes, basic identifications, and relative sizes of objects. Think of the eye as a sensor that allows our brain to collect, organize, and interpret things around us. The human eye has a number of parts which must function together to assure eyesight. Failure or weakness of any one of these can impair eyesight, or cause blindness.

In this lab, you will explore how your eyes work and identify the major parts of the human eye, compare the eye to optical instruments such as the telescope or camera, and conduct at-home eye tests which detail near and far sightedness, color blindness, depth of perception, and blind spots. <sup>(1)</sup>

#### Objectives

At the end of this module, students will be able to:

- Identify the major parts of the human eye
- Compare the parts and functions of the eye with those of cameras and telescopes
- Perform tests of the eyes for Afterimages, Blind Spots, Eye Dominance, Focus, Color Vision, and Astigmatism <sup>(1)</sup>

#### Outcomes

The material in this module includes content designed to meet the following course outcomes:

- Demonstrate knowledge of scientific method.
- Communicate scientific ideas through oral or written assignments.

- Interpret scientific models such as formulas, graphs, tables and schematics, draw inferences from them and recognize their limitations.
- Demonstrate the ability to think critically.
- Demonstrate the ability to use scientific and quantitative reasoning. <sup>(1)</sup>

### Assigned Readings

Learning Unit 4

### Assignments

- About Your Eyes Activity
- Lab 4 Quiz <sup>(1)</sup>

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