

J. Sargeant Reynolds Community College
Course Content Summary

Course Prefix and Number: OPT 105

Course Title: Anatomy, Physiology, and Pathology of the Eye

Course Description

Considers the fundamentals of various body systems and principles of human physiology; methods of drug delivery, including the advantages and disadvantages of drops, ointments, and sustained release systems; systemic use of medications; basic characteristics of common external and internal diseases of the eye; and ocular emergencies. Lecture 3 hours per week.

General Course Purpose

This course is designed to provide students with a knowledge base of general and ocular anatomy and physiology and common eye diseases/emergencies and their treatment, to enable them to function as effective opticians.

Course Prerequisites/Corequisites

None

Course Objectives

Upon completing the course, the student will be able to:

- a. Identify structures of the eye.
- b. Describe the basic functioning of each body system.
- c. Describe common external and internal eye diseases and ocular emergencies.
- d. Discuss the systemic use of medications.
- e. Articulate the methods of drug delivery, including the advantages and disadvantages of drops, ointments, and sustained release systems.

Major Topics to be Included

- a. General and Ocular Anatomy and Physiology
- b. Basic Ophthalmic Pharmacology
- c. Introduction to Diseases of Eye
- d. Ocular Emergencies and their Treatment
- d. Basic Functioning of Each Body System