

**J. Sargeant Reynolds Community College  
Course Content Summary**

**Course Prefix and Number:** OPT 105

**Credits:** 3

**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 ocular anatomy, diseases, conditions, treatments and medications used 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

**Effective Date of Course Content Summary (Month, Date Year):** July 7, 2006