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  
e. Basic Functioning of Each Body System

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