Course Prefix and Number: OPT 273

Course Title: Contact Lens Theory I

Course Description: Introduces basic concepts and techniques of contact lens fitting, design, materials, and nomenclature. Covers contact lens insertion and removal techniques, and basic slit lamp and keratometry skills. Prerequisites: OPT 105 or equivalent. Lecture 3 hours per week.

General Course Purpose: This course is designed to provide students with a knowledge base of contact lens theory principles to enable them to function as effective opticians.

Course Prerequisites and Co-requisites:
Prerequisites: OPT 105 or equivalent

Student Learning Outcomes:
Upon completing the course, the student will be able to
a. Develop proficiency with slit lamp and keratometer;
b. Perform insertion and removal;
c. Identify the parts of a lens;
d. Understand a universal language that can be understood by other contact lens fitters, as well as a necessary tool for documentation;
e. Identify contact lens nomenclature and lens parameters;
f. Gain an understanding of the structures of the eye and normal eye functions;
g. Identify various contact lens materials enabling one to select the proper lens for patients;
h. Identify contact lens designs and the relationship of contact lens fittings;
i. Explain how wearing contact lenses impacts the anatomy and physiology of the anterior segment of the eye; and
j. State the indications and contraindications for fitting rigid and soft contact lenses.

Major Topics to Be Included:
a. Lens nomenclature, history and design
b. Ocular anatomy
c. Interview/prefit evaluation
d. Insertion and removal
e. Keratometry
f. Slit lamp
g. Soft spherical
h. Soft toric

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