

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

Course Prefix and Number: OPT 273

Credits: 3

Course Title: Contact Lens Theory I

Course Description (including lecture hours, lab hours, total contacts)

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. 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/Corequisites

Prerequisites: OPT 105, or equivalent

Course Objectives

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.
- 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

Effective Date of Course Content Summary (Month, Date Year): August 1, 2008