

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

**Course Prefix and Number:** OPT 273

**Credits:** 3

**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

**Date Created/Updated (Month, Day, and Year):** January 30, 2019