

J. Sargeant Reynolds Community College
Course Content Summary

Course Prefix and Number: OPT 273 **Credits:** 3

Course Title: Contact Lens I

Course Description:

Introduces basic concepts and techniques of contact lens fitting, design, materials, and nomenclature. Covers basic slit lamp, keratometry, and contact lens insertion and removal techniques. Part I of III. Prerequisites: OPT 105 or equivalent. Lecture 2 hours per week. Laboratory 2 hours per week. Total 4 hours per week. 3 credits

General Course Purpose:

This course introduces students to the principles and hands-on application of contact lens theory 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

- Recognize contact lens nomenclature and ophthalmic notations used for documentation
- Identify contact lens parts and parameters
- Explain how the use of contact lenses impacts the anatomy and physiology of the eye and surrounding structures
- Recognize indications and contraindications for fitting contact lenses
- Describe contact lens designs and how it relates to the selection of a contact lens
- Recognize various contact lens materials enabling one to select the proper lens for patients
- Demonstrate basic knowledge of the keratometer parts and their functions
- Interpret keratometric readings when calculating the amount and type of corneal astigmatism
- Demonstrate basic knowledge of the slit lamp parts and their functions
- Demonstrate ability to complete appropriate patient record documentation
- Calculate the necessary lens power for soft spherical contact lenses
- Perform insertion and removal of a soft contact lens

Major Topics to Be Included:

- Contact lens nomenclature, history and design
- Ocular anatomy
- Indications and Contraindications
- Interview/prefit evaluation (SOAP)
- Keratometry
- Slit lamp
- Insertion and removal of soft lenses
- Soft spherical calculations

Effective Date/Updated: November 3, 2022