

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

Course Prefix and Number: OPT 260

Credits: 3

Course Title: Optical Dispensing Theory II

Course Description: Focuses on the development and refinement of the skills necessary for student to become licensed dispensing optician, including patient/client measurements, presbyopic options, frame and lens materials, absorptive lenses, frame and lens selection, safety and sports eyewear, prescription analysis to include considerations for spectacle magnification and tilt, low vision aids, and adjustment techniques. Prerequisites: OPT 160 and OPT 165 or equivalent. Co-requisite: OPT 271. Lecture 3 hours per week.

General Course Purpose: The purpose of this course is to expand the optical knowledge basis of the student in regard to practical and lifestyle dispensing skills required of a licensed optician.

Course Prerequisites and Co-requisites:

Prerequisites: OPT 160 and OPT 165 or equivalent

Co-requisite: OPT 271

Student Learning Outcomes:

Upon completing the course, the student will be able to

- a. Describe final inspection and analyze eyeglasses according to ANSI standards;
- b. Analyze issues related to the ethics, laws, and regulations involved in dispensing optical eyewear;
- c. Interpret the wearer's optical needs, and recommend lens and frame designs and materials; tints, coatings, specialty designs, and materials;
- d. Explain various multifocal and progressive lens designs, advantages, and disadvantages;
- e. Calculate appropriate lens specifications to eliminate magnification errors;
- f. Explain the advantages and disadvantages of all absorptive lens types; and
- g. Calculate the astigmatic error caused by excessive lens tilt.

Major Topics to Be Included:

- a. Presbyopic options
- b. Progressive lenses
- c. Lens tilt
- d. Absorptive lenses
- e. Sports and safety vision
- f. Lens aberrations
- g. Spectacle magnification
- h. Low vision (pediatric to geriatric)

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