

**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 a licensed dispensing optician, including patient/client measurements, frame and lens materials, frame and lens selection, prescription analysis 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): February 12, 2025