

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

Course Prefix and Number: OPT 153

Credits: 3

Course Title: Optical Laboratory Clinical II

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

Provides the clinical component of Optical Laboratory Theory II. Presents students with an opportunity to learn clinical skills for optical laboratory tasks at the advanced level under the direction and supervision of a preceptor. Emphasizes accuracy and the attainment of skills that meet acceptable professional standards. Laboratory 6 hours per week.

General Course Purpose

This course is designed to provide students with the practical hands on applications of an optical laboratory to enable them to function as effective opticians.

Course Prerequisites/Corequisites

Prerequisite: OPT 150 and OPT 152, or equivalent

Corequisite: OPT 151

Course Objectives

Upon completing the course, the student will be able to:

- a. neutralize and finish bifocal lenses / progressive lenses
- b. fabricate and verify semi-rimless frame eyewear
- c. fabricate and verify half-eye eyewear
- d. fabricate and verify bifocal lens eyewear / progressive lens eyewear
- e. fabricate and verify all types of eyewear lenses that contain prescribed prism
- f. learn to perform minor frame repairs
- g. learn to roll & polish the edges of plastic lenses
- h. improve skills in standard alignment of frames
- i. improve knowledge base of ANSI standards.
- j. ability to calculate and demonstrate layout for both surfacing and finishing of ophthalmic lenses.

Major Topics to be Included

- a. Multifocal Lensometry
- b. Finishing layout and fabrication
- c. Nylon Cord and Groove Mountings
- d. Prism Lensometry
- e. Standard Alignment and Frame Repairs
- f. Final Inspection

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