



### **Course Description**

#### **OPT 2451L | Ophthalmic Dispensing II LAB | 1 credit**

Students will develop knowledge dealing with the theory of ophthalmic dispensing, such as frame selection, multifocal measurement, ordering, verification, dispensing, adjustment, and repairs. Students will gain a technical knowledge of the properties of different ophthalmic frame materials; glass, plastic, absorptive lenses, photochromatics, multifocals, and invisible and progressive power bifocals. In this laboratory student will spend time practicing concepts learned in the lecture.

### **Course Competencies**

#### Competency 1

The student will identify standard alignment of an ophthalmic frame by:

1. Evaluating frames.
2. Recognizing bridge misalignments xing, coplanar and skewed.

#### Learning Outcomes

- Solve problems using critical and creative thinking and scientific reasoning

#### Competency 2

The student will adjust ophthalmic frame on a patient by:

1. Adjusting ophthalmic frame on a patient starting with the bridge.
2. Checking for temple parallelism. If temples are parallel and the frame is not straight, the temples need to be adjusted to compensate for asymmetry of patient.
3. Adjusting pantoscopic angle of frame front.

#### Learning Outcomes

- Solve problems using critical and creative thinking and scientific reasoning

#### Competency 3

The student will measure monocular pupillary distances and conduct the fitting techniques for available progressive power lenses by:

1. Demonstrating ability to use Essilor pupilometer for measuring monocular pupillary distances.
2. Using marking pen techniques for measuring monocular segment heights.
3. Demonstrating ability to measure monocular segment heights using the PD rule.
4. Defining minimum PAL fitting height.

#### Learning Outcomes

- Solve problems using critical and creative thinking and scientific reasoning