



## **Course Description**

### **OPT2377L | REFRACTOMETRY III - Lab | 1 credit**

This course is a two-hour lab course that focuses on the principles practice of refractometry. Topics include theoretical aspects of static retinoscopy, cross cylinder techniques, vertex compensations trial lens testing and special patient problems how to work with them and communication techniques.

## **Course Competencies**

**Competency 1:** The student will demonstrate an understanding of basic refraction by:

1. Discussing the basic concepts of refractometry
2. Discussing the use of retinoscopy as a tool on objective refractometry
3. Describing refinement methods used in subjective refractometry
4. Explaining the different types of advanced refractometry

## **Learning Outcomes**

- Solve problems using critical and creative thinking and scientific reasoning

**Competency 2:** The student will demonstrate an understanding of light vergence and its effect on vision by:

1. Discussing the vergence concept of light
2. Describing the effect of optical power upon vergence
3. Discussing the object-image relationships

## **Learning Outcomes**

- Solve problems using critical and creative thinking and scientific reasoning

**Competency 3:** The student will interpret the written prescription and its effect on vision by:

1. Analyzing the prescription
2. Discussing the interpupillary distance and decentration
3. Discussing the effects of vertex distance

## **Learning Outcomes**

- Solve problems using critical and creative thinking and scientific reasoning