Miami Dade College

## Course Description

**OPT2375L | Refractometry I -Lab | 1 credit**

This course is a one-hour lecture course that focuses on the practices of refractometry. Topics include the monocular subjective, cross cylinder techniques for astigmatism, binocular subjective and binocular endpoints (BVA) best visual acuity.

## Course Competencies

**Competency 1:** The student will demonstrate an understanding of 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. Describing methods and determining factors employed when coping with a patient with refractive errors

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
4. Describing Ophthalmic Lenses

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. Describing the procedure for hand neutralization
3. Discussing the effects of vertex distance

Learning Outcomes
- Solve problems using critical and creative thinking and scientific reasoning

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