Miami Dade College

Course Description

OPT2376L | REFRACTOMETRY II - 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