

**OPH 233**  
**ADVANCED OPTICAL PROCEDURES**

**COURSE DESCRIPTION:**

Prerequisites: OPH 131, OPH 132, OPH 141, and OPH 142

Corequisites: None

This course introduces special optical procedures. Topics include advanced optical assessments and calculations. Upon completion, students should be able to describe appropriate patient care.

Course Hours Per Week: Class, 3. Lab, 2. Semester Hours Credit, 4.

**COURSE OBJECTIVES:**

Upon completion of the course, the student will be able to display an understanding of all parts of the normal eye exam, demonstrate effective communications with the prescriber and patients in situations requiring advanced fitting knowledge.

- a. Select low-vision aids to improve the vision of consumers with partial sight.
- b. Demonstrate how to use a variety of low vision aids.
- c. Determine and make recommendations for children's eyewear.
- d. Determine and make recommendations for elderly patients' eyewear.
- e. Determine and make recommendations for patients with physical disabilities
- f. Demonstrate a basic knowledge of procedures used during an ocular examination.

**OUTLINE OF INSTRUCTION:**

- I. Dispensing low-vision aids
  - A. Introduction to low-vision
  - B. Causes of low-vision
  - C. Identification and classification of low-vision aids
- II. Pediatric Dispensing
  - A. Problems associated with
  - B. Special considerations
  - C. Practical fitting considerations
- III. Geriatric Dispensing
  - A. Problems associated with
  - B. Special Considerations
  - C. Practical fitting considerations

- IV. Specialty Lenses
  - A. Lens designs
  - B. Materials
  - C. Lens treatments and coatings
- V. Patients with Disabilities
  - A. Visual
  - B. Hearing
  - C. Medically related
- VI. The Eye Examination
  - A. Case histories
  - B. Entrance tests
  - C. The ocular exam
  - D. Equipment
- VII. Advanced Prescription Analysis
  - A. Case histories

#### **REQUIRED TEXTBOOKS AND MATERIALS:**

None

#### **SUGGESTED REFERENCES:**

Brooks and Borish. Systems for Ophthalmic Dispensing. 2<sup>nd</sup> ed. Butterworth-Heinemann, 1996.

Fannin and Grosvenor. Clinical Optics. 2<sup>nd</sup> ed.. Butterworth-Heinemann, 1996.

Carlson. Clinical Procedures for Ocular Examination. 2<sup>nd</sup> ed. Appleton & Lange, 1996.

#### **STATEMENT FOR STUDENTS WITH DISABILITIES:**

Students who require academic accommodations due to any physical, psychological, or learning disability are encouraged to request assistance from a disability services counselor within the first two weeks of class. Likewise, students who potentially require emergency medical attention due to any chronic health condition are encouraged to disclose this information to a disability services counselor within the first two weeks of class. Counselors can be contacted by calling 686-3652 or by visiting the Student Development Office in the Phail Wynn Jr. Student Services Center, room 1309.