

BROWARD COLLEGE COURSE OUTLINE

LAST REVIEW: 2011-2011

NEXT REVIEW: 2015-2016

STATUS: A

COURSE TITLE OPHTHALMIC DISPENSING CLINIC I

COMMON COURSE NUMBER: OPT 2460

CREDIT HOURS: 2

CONTACT HOUR BREAKDOWN **80**

Lecture:

Lab:

Clinic:

Other: **80**

PREREQUISITE(S): OPT 2500, OPT 2375 and OPT 2800L

COREQUISITE(S):

PRE or COREQUISITE: OPT 2420, OPT 2830L and OPT 2875

COURSE DESCRIPTION:

Development of skills in the fitting and dispensing of ophthalmic lenses. Students will work under the close supervision of clinical staff in dispensing glasses to patients of the Vision Care Clinic. Emphasis will be placed on techniques used to dispense new technology in ophthalmic frame materials; multifocal lenses including progressive power and occupational bifocals; and high index lenses. The process of analyzing the patient's prescription and identifying the patient's specific visual needs for proper frame and lens selection is highlighted.

UNIT TITLES

1. PRACTICAL APPLICATION OF PRESCRIPTION ANALYSIS
2. FACIAL ANATOMY AND COSMETICS
3. FRAME SELECTION AND COSMETICS
4. SPECIAL PURPOSE FRAMES
5. SPECIALTY LENSES
6. ORDERING AND VERIFICATION
7. ALIGNMENT OF THE FRAME
8. ADJUSTING THE FRAME
9. FRAME REPAIRS

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UNIT 1: PRACTICAL APPLICATION OF PRESCRIPTION ANALYSIS

General Outcome:

1.0 The student will determine the special fitting requirements of a specific prescription.

Specific Measurable Learning Outcomes:

Upon successful completion of this unit, the student shall be able to:

- 1.1 Determine if a prescription requires a special frame or special fitting techniques.
- 1.2 Advise a patient as to any special requirements for optimal fitting and best optics.

UNIT 2: FACIAL ANATOMY AND COSMETICS

General Outcome:

2.0 The student will demonstrate how facial anatomy can be enhanced by the proper use of cosmetics in frame selection.

Specific Measurable Learning Outcomes:

Upon successful completion of this unit, the student shall be able to:

- 2.1 Demonstrate knowledge of the seven (7) basic facial shapes.
- 2.2 List five (5) basic skin tones and how frame color will enhance facial cosmetics.
- 2.3 Explain to a patient how frame cosmetics will affect facial cosmetics.

UNIT 3: FRAME SELECTION

General Outcome:

3.0 The student will determine how a frame can be used to enhance facial features and limitation on frame design due to optical considerations.

Specific Measurable Learning Outcomes:

Upon successful completion of this unit, the student shall be able to:

- 3.1 Determine if lens accessories are needed.
- 3.2 Determine the effect that bridge design will have on the appearance of the nose.
- 3.3 Demonstrate knowledge of frame style and construction when fitting the high minus or high plus lens wearer.
- 3.4 Determine the optical effects of various frame shapes.
- 3.5 Determine the change in effective power of a lens when the frame fit is changed.

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- 3.6 Differentiate between the different angles of the nose pads and demonstrate how they affect frame fit.

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UNIT 4: SPECIAL PURPOSE FRAMES

General Outcome:

- 4.0 The student will be able to identify and compare frames used for special prescriptions and occupations.

Specific Measurable Learning Outcomes:

Upon successful completion of this unit, the student shall be able to:

- 4.1 List five (5) types of specialty frames.
- 4.2 Determine which frames can be used for aphakic prescriptions.
- 4.3 Determine which frames can be used for progressive myopia.
- 4.4 Demonstrate knowledge of occupational safety frame requirements according to ANSI Z-87 standards.
- 4.5 Describe sports frames.

UNIT 5: SPECIALTY LENSES

General Outcome:

- 5.0 The student will demonstrate the knowledge needed to dispense high powered and occupational lenses.

Specific Measurable Learning Outcomes:

Upon successful completion of this unit, the student shall be able to:

- 5.1 Demonstrate the special fitting techniques with aphakic lenses.
- 5.2 Demonstrate the special fitting techniques with high minus lenticular lenses.
- 5.3 Demonstrate the special techniques of fitting occupational lenses.

UNIT 6: ORDERING AND VERIFICATION

General Outcome:

- 6.0 The student will gain a working knowledge of how to order and verify lenses and frames.

Specific Measurable Learning Outcomes:

Upon successful completion of this unit, the student shall be able to:

- 6.1 Identify important information on a lens order form.
- 6.2 Identify frame markings in relation to ordering.
- 6.3 Use the lensometer in the verification process.

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- 6.4 Demonstrate how to determine the quality of lens surfaces and lens media.
- 6.5 Verify frame orders.

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UNIT 7: ALIGNMENT OF THE FRAME

General Outcome:

- 7.0 The student will demonstrate a working knowledge of the procedure used in “truing” or placing the frame in a standard alignment.

Specific Measurable Learning Outcomes:

Upon successful completion of this unit, the student shall be able to:

- 7.1 Demonstrate “truing” or standard alignment.
- 7.2 Correctly heat and reshape a frame.
- 7.3 Align the bridge of a plastic frame.
- 7.4 Place a plastic frame in correct “four-point” touch.
- 7.5 Align of the temples in a plastic frame.
- 7.6 Correct temple spread problems for a plastic frame.
- 7.7 Align temple-fold angle of a plastic frame.
- 7.8 Align the bridge of a metal frame.
- 7.9 Place a metal frame in proper “four-point” touch.
- 7.10 Align the temples of a metal frame.
- 7.11 Correct temple spread problems for a metal frame.
- 7.12 Align temple-fold angle of a metal frame.

UNIT 8: ADJUSTING THE FRAME

General Outcome:

- 8.0 The student will demonstrate knowledge of the procedure used in adjusting the frame to custom fit a patient’s face.

Specific Measurable Learning Outcomes:

Upon successful completion of this unit, the student shall be able to:

- 8.1 Demonstrate methods of changing the pantoscopic tilt on various frames.
- 8.2 Demonstrate the procedure to adjust nose pads.
- 8.3 Demonstrate the methods used in correcting the fit of a bridge.
- 8.4 Determine how to move a frame horizontally.
- 8.5 Demonstrate proper temple fit.

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8.6 Demonstrate proper frame fitting.

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UNIT 9: FRAME REPAIRS

General Outcome:

9.0 The student will demonstrate a working knowledge of the procedure and methods used in making minor frame repairs.

Specific Measurable Learning Outcomes:

Upon successful completion of this unit, the student shall be able to:

- 9.1 Demonstrate the proper methods for repairing hinges.
- 9.2 Repair broken plastic frames.
- 9.3 Demonstrate wire brace bridge repairs.
- 9.4 Fix loose fitting lenses.
- 9.5 Clean frames.
- 9.6 Demonstrate frame soldering.