BROWARD COLLEGE
COURSE OUTLINE

LAST REVIEW: 2011-2012 **NEXT REVIEW: 2015-2016** **STATUS: A**

COURSE TITLE: OPHTHALMIC DISPENSING LAB

COMMON COURSE NUMBER: OPT 1450L

CREDIT HOURS: 2 **CONTACT HOUR BREAKDOWN**

CLOCK HOURS: Lecture: Lab: 64
Clinic: Other:

PREREQUISITE(S): OPT 1150, OPT 1150L, OPT 1330, OPT 2375
COREQUISITE(S):
PRE or COREQUISITE(S): OPT 1450, OPT 2500, OPT 2500L, OPT 2800L

COURSE DESCRIPTION

This course provides the opportunity for students to practice ophthalmic dispensing. Measurement and adjusting ophthalmic frame materials; multifocal lenses; occupational bifocals; high index lenses and low vision devices will be emphasized. The process of analyzing the patient's prescription and identifying the patient's specific visual needs for the proper frame and lens selection are highlighted.

UNIT TITLES

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

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Unit 1: PRESCRIPTION ANALYSIS

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

Specific Learning Objectives
To successfully complete this module the student will:

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 Learning Objectives
To successfully complete this module the student will:

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

Unit 3: FRAME SELECTION

General Outcomes

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 Learning Objectives
To successfully complete this module the student will:

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.
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 Learning Objectives
To successfully complete this module the student will:

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 Learning Objectives
To successfully complete this module the student will:

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 Learning Objectives
To successfully complete this module the student will:

6.1 Identify important information on a lens order form.
6.2 Identify frame markings in relation to ordering.

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Unit 6: ORDERING AND VERIFICATION continued

6.3 Use the lensometer in the verification process.
6.4 Demonstrate how to determine the quality of lens surfaces and lens media.
6.5 Verify frame orders.

Unit 7 LENS INSERTION

General Outcome

7.0 The student will demonstrate a working knowledge of the procedure for insertion and mounting of spectacle lenses in an ophthalmic frame.

Specific Learning Objectives
To successfully complete this module the student will:

7.1 Demonstrate the proper method for heating a zyl frame.
7.2 Demonstrate several methods of lens insertion into a zyl frame.
7.3 Satisfactorily check a frame after inserting a lens .
7.4 Check bifocal segment alignment.
7.5 Demonstrate several methods of lens insertion into a nylon frame.
7.6 Demonstrate several methods of lens insertion into an optyl frame.
7.7 Demonstrate several methods of lens insertion into a wire frame.
7.8 Demonstrate the method of insertion of a lens into a semi-rimless frame.
7.9 Demonstrate the methods of mounting a lens into a rimless frame.

Unit 8 ALIGNMENT OF THE FRAME

General Outcome

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

Specific Learning Objectives
To successfully complete this module the student will:

8.1 Demonstrate “truing” or standard alignment.
8.2 Correctly heat and reshape a frame.
8.3 Align the bridge of a plastic frame.

8.4 Place a plastic frame in correct “four-point” touch.
8.5 Align of the temples in a plastic frame.
8.6 Correct temple spread problems for a plastic frame.

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Unit 8 ALIGNMENT OF THE FRAME continued

8.7 Align temple-fold angle of a plastic frame.
8.8 Align the bridge of a metal frame.
8.9 Place a metal frame in proper “four-point” touch.
8.10 Align the temples of a metal frame.
8.11 Correct temple spread problems for a metal frame.
8.12 Align temple-fold angle of a metal frame.

Unit 9 ADJUSTING THE FRAME

General Outcome

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

Specific Learning Objectives
To successfully complete this module the student will:

9.1 Demonstrate methods of changing the pantoscopic tilt on various frames.
9.2 Demonstrate the procedure to adjust nose pads.
9.3 Demonstrate the methods used in correcting the fit of a bridge.
9.4 Determine how to move a frame horizontally.
9.5 Demonstrate proper temple fit.
9.6 Demonstrate proper frame fitting.

Unit 10: FRAME REPAIRS

General Outcome

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

Specific Learning Objectives
To successfully complete this module the student will:

10.1 Demonstrate the proper methods for repairing hinges.
10.2 Repair broken plastic frames.
10.3 Demonstrate wire brace bridge repairs.
10.4 Fix lose fitting lense.
10.5 Clean frames.