

**LAST REVIEW: 2011-2011****NEXT REVIEW: 2015-2016****STATUS: A****COURSE TITLE: VISION CARE CLINIC I****COMMON COURSE NUMBER: OPT 2800L****CREDIT HOURS: 2****CONTACT HOUR BREAKDOWN 80**

Lecture: \_\_

Lab:

Clinic:

Other: **80****PREREQUISITE(S): OPT 1150, OPT 1150L****COREQUISITE(S): OPT 1450L, OPT 2500L****PRE or COREQUISITE(S): OPT 2375, 2879****COURSE DESCRIPTION**

This course provides a review of the practical procedures used to apply technical skills of contact fitting, application and removal procedures, care of soft and hard lenses, verification of contact lens prescription and "in-office" modification of contact lenses.

**UNIT TITLES**

1. VISION CARE CLINIC RULES AND REGULATIONS (REVIEW)
2. UNIVERSAL PRECAUTIONS
3. CLINICAL DATA COLLECTION
4. EXAMINATION, DIAGNOSIS, AND TREATMENT CENTER
5. OPHTHALMIC DISPENSING CENTER
6. CASE STUDIES AND PRESENTATIONS
7. ADVANCED CONTACT LENS FITTING PROCEDURES
8. INSPECTION AND VERIFICATION
9. MODIFICATION OF CONTACT LENSES
10. SOLUTIONS AND ACCESSORIES
11. PATIENT EDUCATION
12. FOLLOW-UP EXAMINATION

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UNIT 1: VISION CARE CLINIC RULES AND REGULATIONS

**General Outcome:**

1.0 This unit serves as an introduction to the vision care clinic. The student will be able to explain the rules and regulations of the department and be oriented to the procedures of the vision care clinic.

**Specific Measurable Learning Outcomes:**

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

- 1.1 Demonstrate knowledge of the rules and regulations of the clinic.
- 1.2 Practice the six (6) characteristics of a professional technician.
- 1.3 Familiarize themselves with the procedures of the clinic.
- 1.4 Understand the proper procedures for patient flow.

UNIT 2: PATIENT CONFIDENTIALITY

**General Outcome:**

2.0 The student will be able to explain and practice patient confidentiality.

**Specific Measurable Learning Outcomes:**

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

- 2.1 Practice the proper methods to ensure patient confidentiality.
- 2.2 Demonstrate professional manner in dealing with sensitive patient issues.
- 2.3 Properly safeguard patient charts and patient information.

UNIT 3: UNIVERSAL PRECAUTIONS

**General Outcome:**

3.0 The student will demonstrate knowledge of universal precautions, aseptic technique and infection control.

**Specific Measurable Learning Outcomes:**

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

- 3.1 Practice safety measures as they apply to a student and to an ophthalmic technician and optician.
- 3.2 Demonstrate Universal Precautions
- 3.3 Demonstrate infection control practices.

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UNIT 4: IDENTIFYING THE PATIENT

**General Outcome:**

4.0 The student will be able to identify a patient by several means.

**Specific Measurable Learning Outcomes:**

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

- 4.1 Demonstrate different techniques to identify a patient.
- 4.2 Coordinate patient flow and ensure that the proper patient is being given the proper treatment.
- 4.3 Demonstrate knowledge of appointment conformations and recall.
- 4.4 Utilize patient record storage and retrieval methods.

UNIT 5: CASE HISTORY

**General Outcome:**

5.0 The student will be able to demonstrate the ability to take a case history

**Specific Measurable Learning Outcomes:**

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

- 5.1 Explain the importance of obtaining an accurate and concise history.
- 5.2 Give examples of questions designed to provide general information.
- 5.3 Demonstrate procedures for patient identification and greeting.
- 5.4 Be able to record a case history and present the case to the Clinician and/or other students.

UNIT 6: BASIC VISUAL ASSESSMENT

**General Outcome:**

6.0 The student will be able to perform visual assessment on a patient.

**Specific Measurable Learning Outcomes:**

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

- 6.1 Demonstrate various methods of measuring visual acuity
- 6.2 Use a pinhole occluder to test acuity
- 6.3 Record visual acuity
- 6.4 Test visual acuity in the preoperative patient with decreased vision.
- 6.5 Test a patient who is unable to read the standard chart

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UNIT 7: ADVANCED CONTACT LENS FITTING PROCEDURES

**General Outcome:**

7.0 The student shall: determine the special fitting requirements of a specific prescription also taking into account any special or abnormal refractive considerations.

**Specific Measurable Learning Outcomes:**

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

- 7.1 Determine if a prescription requires a special contact lens or special fitting techniques.
- 7.2 Advise a patient as to any special requirements for optimal fitting and best optics.
- 7.3 Demonstrate knowledge of contact lens.
- 7.4 Explain to a patient how the lens should be cared for.

UNIT 8: INSPECTION AND VERIFICATION

**General Outcome:**

8.0 The student will be able to describe the procedures used to determine if the specific parameters ordered have been followed by the laboratory.

**Specific Measurable Learning Outcomes:**

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

- 8.1 List the parameters that need to be verified on a rigid contact lens.
- 8.2 Describe the instruments and tools used to inspect and verify rigid contact lenses.
- 8.3 Discuss the acceptable tolerances according to ANSI standards and patient acceptance.
- 8.4 Explain the procedure for verification of a contact lens's base curve.
- 8.5 Describe the use of the Optical Microspherometer (Radiuscope).
- 8.6 Differentiate between the use of the Radiuscope and the Keratometer to determine the base curve of contact lenses.
- 8.7 Describe the method used to determine the power of contact lenses.
- 8.8 Explain how the optical quality of contact lenses can be verified.
- 8.9 Compare several methods for determining the center thickness of rigid contact lenses.
- 8.10 Describe the use of the projection magnifier to verify the edges of rigid contact lenses.
- 8.11 List the parameters that need to be verified on a hydrogel contact lens.
- 8.12 Describe the instruments and tools used to inspect and verify hydrogel contact lenses.
- 8.13 Describe the template bar method to determine the radius of hydrogel contact lenses.
- 8.14 Describe the use of a wet cell to determine the power of hydrogel contact lenses.
- 8.15 List the reasons for rejecting a contact lens from the laboratory.

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UNIT 9: MODIFICATION OF CONTACT LENSES

**General Outcome:**

9.0 The student will be able to discuss in-office modifications to rigid contact lenses .

**Specific Measurable Learning Outcomes:**

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

- 9.1 Describe the modification unit.
- 9.2 Compare several polishes.
- 9.3 Describe peripheral curve fabrication and modification.
- 9.4 Explain the use of grinding radius laps.
- 9.5 Explain the use of polishing laps.
- 9.6 Describe how to blend a rigid lens.
- 9.7 Discuss in-office modification of the edge of a rigid lens.
- 9.8 Discuss the method for in-office power modification.
- 9.9 Compare several methods of polishing a lens.

UNIT 10: SOLUTIONS AND ACCESSORIES

**General Outcome:**

10.0 The student will demonstrate an in-depth knowledge of contact lens cleaning and conditioning solutions and other accessories.

**Specific Measurable Learning Outcomes:**

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

- 10.1 Discuss general principles of contact lens pharmacology.
- 10.2 Explain the use of solutions for PMMA and other rigid contact lenses.
- 10.3 List the types of solutions for PMMA and other rigid contact lenses.
- 10.4 Discuss solutions and sterilization for hydrogel lenses.
- 10.5 Compare and contrast the three (3) types of sterilization procedures for hydrogel contact lenses.
- 10.6 Explain the use of artificial tears.

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UNIT 11: PATIENT EDUCATION

**General Outcome:**

- 11.0 The student will be able to communicate to a patient the proper placement, removal and care of contact lenses as well as educating the patient to signs, symptoms, and proper follow-up care.

**Specific Measurable Learning Outcomes:**

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

- 11.1 Describe the general principles of educational aids in contact lens education.
- 11.2 Explain emergency procedures to a new contact lens wearer.
- 11.3 Explain the techniques of lens wear for rigid contact lenses.
- 11.4 Describe the use of cosmetics and proper hygiene with contact lenses.
- 11.5 Describe normal adaptation sensations.
- 11.6 Explain proper wearing schedules.
- 11.7 Explain the techniques of lens wear for hydrogel contact lenses.
- 11.8 Discuss proper lens handling by the patient.

UNIT 12: FOLLOW-UP EXAMINATION

**General Outcome:**

- 12.0 The student will be able to discuss how the many factors involved in contact lens wear may affect the patient's ocular health. The procedure for the follow-up examination will also be discussed

**Specific Measurable Learning Outcomes:**

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

- 12.1 List the follow-up examination procedures.
- 12.2 Discuss the history and symptoms.
- 12.3 List patient symptoms and signs with both rigid and hydrogel contact lenses.
- 12.4 Describe the process of over-refraction.
- 12.5 Discuss the evaluation of lens fit.
- 12.6 Describe various fluorescein patterns.