



Broward Community College

Course Outline

STATUS: A

COMMON COURSE NUMBER: OPT 2287

COURSE TITLE: OPHTHALMIC MEDICAL PRACTICUM III

CREDIT HOURS: 4

CONTACT HOURS BREAKDOWN:

Lecture / Discussion 0
Other (Clinic) 240

Contact Hours/ Week: 20

CATALOG COURSE DESCRIPTION

Continuation of OPT 2901. Externship in an approved ophthalmic practice. This is the most advanced clinical education and successful completion will ensure that the student is competent upon graduation to assume all of the responsibilities required of an Ophthalmic Technician. student will gain knowledge of advanced duties and responsibilities an ophthalmic medical office. Emphasis will be placed on continuing the development of skills in tonometry, visual fields, A and B scan ultrasound, and photo-documentation. Skills in assisting in triage and laboratory diagnosis of eye disease, and outpatient surgical assisting will be obtained. This course is required to fulfill requirements for clinical experience by the national accrediting agencies.

Prerequisite: OPT 2351, OPT 2802, OPT 2941 and OPT 2223

Co-requisite:

UNIT TITLES:

- 1 Advanced Goldmann Tonography
- 2 Topography
- 3 Biometry: A & B Scans
- 4 Advanced And Automated Perimetry
- 5 Fluorescein Angiography
- 6 Photographic Angiographic Processing
- 7 Advanced External And Slit Lamp Photography
- 8 Advanced Chairside Assisting: Gonioscopy And Ophthalmoscopy
- 9 Preoperative And Postoperative Procedures

LAST REVIEW Academic Year 2004-2005 NEXT REVIEW Academic Year 2009-2010

Interim Revision Dates:

- 10 Surgical Assisting
- 11 Surgical Materials And Instruments
- 12 Ocular Laboratory Procedures
- 13 Advanced Physical Examination Procedures

COURSE OVERVIEW:

Upon successful completion of this course, the students should be able to:
UNITS

UNIT 1: ADVANCED TONOGRAPHY

General Outcomes:

- 1 The student will be able to perform tonography.

SPECIFIC LEARNING OBJECTIVES:

To successfully complete this module the student will:

- 1.1 Define tonography
- 1.2 Discuss the pathology that would require this type of test
- 1.3 Demonstrate the procedure for tonography
- 1.4 Discuss the interpretation of the results of tonography

UNIT 2: TOPOGRAPHY

General Outcomes:

- 2 The student will be able to perform topography

SPECIFIC LEARNING OBJECTIVES:

To successfully complete this module the student will:

- 2.1 Perform corneal topography on a patient
- 2.2 Discuss corneal contours of normal, pathological and, post surgical corneas

UNIT 3: BIOMETRY: A & B SCANS

General Outcomes:

- 3 The student will be able to perform Biometry

SPECIFIC LEARNING OBJECTIVES:

To successfully complete this module the student will:

- 3.1 Measure axial length
- 3.2 Name four (4) ocular structures that reflect ultrasound echoes

UNIT 4: ADVANCED AND AUTOMATED PERIMETRY

General Outcomes:

- 4 The student will be able to perform advanced and automated visual fields.

SPECIFIC LEARNING OBJECTIVES:

To successfully complete this module the student will:

- 4.1 Differentiate between threshold static and suprathreshold static perimetry
- 4.2 Perform automated screening and threshold techniques

UNIT 5: FLUORESCEIN ANGIOGRAPHY

General Outcomes:

- 5 The student will be able to perform fluorescein angiography.

SPECIFIC LEARNING OBJECTIVES:

To successfully complete this module the student will:

- 5.1 List the steps in angiography
- 5.2 Set-up an angiography
- 5.3 Preparation the fluorescein
- 5.4 Discuss the contraindications for this test

UNIT 6: PHOTOGRAPHIC ANGIOGRAPHIC PROCESSING

General Outcomes:

- 6 The student will be able to describe the methods used to process angiography photographs.

SPECIFIC LEARNING OBJECTIVES:

To successfully complete this module the student will:

- 6.1 Discuss why a color processing darkroom is unnecessary
- 6.2 Use an instant darkroom for black-and-white processing

UNIT 7: ADVANCED EXTERNAL AND SLIT LAMP PHOTOGRAPHY

General Outcomes:

- 7 The student will be able to perform external and slit lamp photography.

SPECIFIC LEARNING OBJECTIVES:

To successfully complete this module the student will:

- 7.1 Photograph the structures that can be photographed with a slit lamp
- 7.2 Discuss the legal importance of photo-documentation
- 7.3 Compare the proper protocol to be used in an emergency situation or research

UNIT 8: ADVANCED CHAIRSIDE ASSISTING: GONIOSCOPY AND
 OPHTHALMOSCOPY

General Outcomes:

- 8 The student will be able to perform gonioscopy and ophthalmoscopy.

SPECIFIC LEARNING OBJECTIVES:

To successfully complete this module the student will:

- 8.1 Prepare a patient for gonioscopy
- 8.2 Describe the structures that can be viewed with a gonioscope
- 8.3 Describe the pathological conditions that would require gonioscopy
- 8.4 Compare the three (3) types of ophthalmoscopes
- 8.5 Discuss the structures that can be viewed with each type of ophthalmoscope
- 8.6 Practice ophthalmoscopy on a patient

UNIT 9: PREOPERATIVE AND POSTOPERATIVE PROCEDURES

General Outcomes:

- 9 The student will be able to discuss the technician's role in preoperative and postoperative procedures.

SPECIFIC LEARNING OBJECTIVES:

To successfully complete this module the student will:

- 9.1 Demonstrate aseptic technique
- 9.2 Obtain an "Informed Consent" from a patient
- 9.3 Explain how to assist a patient before surgery
- 9.4 Apply an eye patch

UNIT 10: SURGICAL ASSISTING

General Outcomes:

10 The student will be able to discuss basic surgical assisting techniques.

SPECIFIC LEARNING OBJECTIVES:

To successfully complete this module the student will:

- 10.1 Demonstrate the technique of the surgical scrub
- 10.2 Demonstrate gowning and gloving procedures
- 10.3 Define a sterile field
- 10.4 Use a Fox shield
- 10.5 Discuss the administration of anesthetics
- 10.6 Describe typical tasks that a technician performs during surgery

UNIT 11: SURGICAL MATERIALS AND INSTRUMENTS

General Outcomes:

11 The student will be able to describe surgical materials and instruments.

SPECIFIC LEARNING OBJECTIVES:

To successfully complete this module the student will:

- 11.1 Demonstrate the care of ophthalmic surgical instruments
- 11.2 Perform the three methods of sterilization

UNIT 12: OCULAR LABORATORY PROCEDURES

General Outcomes:

12 The student will be able to perform the collection ocular laboratory specimens.

SPECIFIC LEARNING OBJECTIVES:

To successfully complete this module the student will:

- 12.1 Describe the indications for taking ocular cultures
- 12.2 Demonstrate the technique for the collection of ocular cultures
- 12.3 Describe the indications for taking cytology scrapings of ocular tissue
- 12.4 Demonstrate the technique for taking scrapings and smears of ocular tissue

UNIT 13: ADVANCED PHYSICAL EXAMINATION PROCEDURES

General Outcomes:

13 The student will be able to perform a non-ocular physical exam.

SPECIFIC LEARNING OBJECTIVES:

To successfully complete this module the student will:

- 13.1 Demonstrate a periauricular lymph node palpation
- 13.2 Demonstrate the methods for exophthalmometry
- 13.3 Perform sphygmomanometry