



Broward Community College

Course Outline

STATUS: A

COMMON COURSE NUMBER: OPT 2941

COURSE TITLE: OPHTHALMIC MEDICAL PRACTICUM I I

CREDIT HOURS: 5

CONTACT HOURS BREAKDOWN:

Lecture / Discussion	<u>0</u>
Lab	<u>0</u>
Other (Clinic)	<u>200</u>

Contact Hours/ Week: 12.5

CATALOG COURSE DESCRIPTION

Externship in an approved ophthalmological practice. The student will gain a working knowledge of advanced and more complete duties and responsibilities of a technician in 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.

Prerequisite: OPT 2222, OPT 2350, OPT 2940 and OPT 2801L

Co-requisite: OPT 2223, OPT2351, OPT2802

UNIT TITLES:

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

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

Interim Revision Dates:

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 technicians' 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