



Broward Community College

Course Outline

STATUS: A

COMMON COURSE NUMBER: OPT 2222

COURSE TITLE: OCULAR PATHOLOGY AND PHARMACOLOGY

CREDIT HOURS: 2

CONTACT HOURS BREAKDOWN:

Lecture / Discussion	<u>32</u>
Lab	<u>0</u>
Other (Clinic)	<u>0</u>
Contact Hours/ Week:	<u>2</u>

CATALOG COURSE DESCRIPTION

Theory and terminology of visual and systemic disorders that affect vision. Introduces the student to the general concepts of disease and the processes by which diseases evolve. The specific disorders that may occur in various parts of the eye and ocular adnexa are discussed in detail. The student will become familiar with the Physicians Desk Reference (PDR), diagnostic, and therapeutic pharmaceutical agents used in vision care.

Prerequisite: OPT 2375, OPT 2800

Co-requisite: OPT 2801, and OPT 2350

UNIT TITLES:

- 1 Principles Of Management Of Common Ocular Disorders
- 2 Basics Of Ophthalmic Pharmacology
- 3 Using The Physicians' Desk Reference (Pdr) For Ophthalmology
- 4 Lids And Lacrimal Apparatus
- 5 Conjunctiva
- 6 Cornea
- 7 Sclera
- 8 Uveal Tract
- 9 Lens
- 10 Vitreous
- 11 Strabismus
- 12 Retina

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: PRINCIPLES OF MANAGEMENT OF COMMON OCULAR DISORDERS

General Outcomes:

- 1 The student will be able to describe the basic management techniques of common ocular disorders in an ophthalmologist's office.

SPECIFIC LEARNING OBJECTIVES:

To successfully complete this module the student will:

- 1.1 Describe common office equipment and supplies needed to treat common ocular disorders
- 1.2 Describe a standard history and physical examination
- 1.3 Explain the difference between urgent and emergency cases

UNIT 2: BASICS OF OPHTHALMIC PHARMACOLOGY

General Outcomes:

- 2 The student will be able to discuss the basics of ophthalmic pharmacology.

SPECIFIC LEARNING OBJECTIVES:

To successfully complete this module the student will:

- 2.1 Discuss the delivery systems of drugs
- 2.2 Explain the administration of topical drugs
- 2.3 Describe the purposes and actions of ophthalmic drugs
- 2.4 Interpret a prescription
- 2.5 Explain first aid for acute drug reactions

UNIT 3: USING THE PHYSICIANS' DESK REFERENCE (PDR) FOR OPHTHALMOLOGY

General Outcomes:

- 3 The student will be able to discuss the use of the PHYSICIANS' DESK REFERENCE (PDR) FOR OPHTHALMOLOGY

SPECIFIC LEARNING OBJECTIVES:

To successfully complete this module the student will:

- 3.1 Discuss the contents of the PDR
- 3.2 Explain how to find information on a drug using the PDR

UNIT 4: LIDS AND LACRIMAL APPARATUS

General Outcomes:

- 4 The student will be able to discuss the examination technique and the common disorders of the lids and lacrimal apparatus.

SPECIFIC LEARNING OBJECTIVES:

To successfully complete this module the student will:

- 4.1 Describe the basic anatomy of the lids and lacrimal apparatus
- 4.2 Discuss infections and inflammation of the lids
- 4.3 Describe positional defects of the lids
- 4.4 Discuss infections of the lacrimal apparatus
- 4.5 Explain the source and function of the tears
- 4.6 Describe the pathology associated with the precorneal tear film

UNIT 5: CONJUNCTIVA

General Outcomes:

- 5 The student will be able to discuss the examination technique and the common disorders of the conjunctiva.

SPECIFIC LEARNING OBJECTIVES:

To successfully complete this module the student will:

- 5.1 Describe the basic anatomy of the conjunctiva
- 5.2 Discuss conjunctivitis
- 5.3 Differentiate between the various forms of conjunctivitis

UNIT 6: CORNEA

General Outcomes:

- 6 The student will be able to discuss the examination technique and the common disorders of the cornea.

SPECIFIC LEARNING OBJECTIVES:

To successfully complete this module the student will:

- 6.1 Describe the basic anatomy of the cornea
- 6.2 Discuss infections and inflammation of the cornea
- 6.3 Describe corneal ulcerations
- 6.4 Describe degenerative corneal conditions
- 6.5 Discuss corneal pigmentation
- 6.6 Explain the procedure for a corneal operation including the procedures for refractive surgery

UNIT 7: SCLERA

General Outcomes:

- 7 The student will be able to discuss the examination technique and the common disorders of the sclera.

SPECIFIC LEARNING OBJECTIVES:

To successfully complete this module the student will:

- 7.1 Describe the basic anatomy of the sclera
- 7.2 Discuss infections and inflammation of the sclera

UNIT 8: UVEAL TRACT

General Outcomes:

- 8 The student will be able to discuss the examination technique and the common disorders of the uveal tract.

SPECIFIC LEARNING OBJECTIVES:

To successfully complete this module the student will:

- 8.1 Describe the basic anatomy of the uveal tract
- 8.2 Discuss uveitis
- 8.3 Differentiate between specific types of uveitis

UNIT 9: LENS

General Outcomes:

- 9 The student will be able to discuss the examination technique and the common disorders of the lens.

SPECIFIC LEARNING OBJECTIVES:

To successfully complete this module the student will:

- 9.1 Describe the basic anatomy of the lens
- 9.2 Explain the process of a cataract
- 9.3 Differentiate between the various types of cataracts
- 9.4 Describe the various types of cataract surgery
- 9.5 Discuss a dislocated lens

UNIT 10: VITREOUS

General Outcomes:

- 10 The student will be able to discuss the examination technique and the common disorders of the vitreous.

SPECIFIC LEARNING OBJECTIVES:

To successfully complete this module the student will:

- 10.1 Describe the basic anatomy of the vitreous
- 10.2 Explain “flashes and floaters”
- 10.3 Describe vitreous surgery

UNIT 11 STRABISMUS

General Outcomes:

- 11 The student will be able to discuss the examination technique and the common disorders of strabismus.

SPECIFIC LEARNING OBJECTIVES:

To successfully complete this module the student will:

- 11.1 Describe the basic anatomy of strabismus
- 11.2 Define the terms associated with strabismus
- 11.3 Differentiate between motor and sensory aspects of strabismus
- 11.4 Explain the testing procedure for strabismus
- 11.5 Explain strabismus surgery

UNIT 12: RETINA

General Outcomes:

- 12 The student will be able to discuss the examination technique and the common disorders of the retina.

SPECIFIC LEARNING OBJECTIVES:

To successfully complete this module the student will:

- 12.1 Describe the basic anatomy of the retina
- 12.2 Describe the diseases of the retina
- 12.3 Discuss retinal holes and tears
- 12.4 Explain retinal detachment
- 12.5 Discuss the pathology associated with the macula
- 12.6 Describe how trauma can affect the retina