

## Course Specification Student Version

Course Title:	Ophthalmology
Course Code:	OPH 510
Department:	Medicine
Program:	Bachelor of Medicine and Surgery
College:	Vision College in Riyadh
Institution:	Vision College in Riyadh
Revised:	July 2025

## A. Course Identification

1. Credit hours: 2 (1+0+1)
2. Level/year at which this course is offered: Level 10/Year 5
3. Pre-requisites for this course (if any): COM 408, IMS 408, PHC 408, BCS 408, MDI 408
4. Co-requisites for this course (if any): None

## B. Teaching Methods

1	Lecture
2	Case-Based Discussions
3	Skill lab sessions

## C. Course Description and Main objective

### 1. Course Description

This course is an introduction to the field of ophthalmology. The knowledge gained during this undergraduate course should allow the students to take an appropriate ophthalmic history and perform an accurate primary care ophthalmic examination. Each student should have the ability to diagnose and appropriately manage emergent and most common ophthalmic conditions, as well as to properly triage other ocular diseases.

### 2. Course Main Objective

The goal of this course is to provide a good foundation in ophthalmology and to graduate medical students who have the competency to diagnose and manage common eye diseases.

### 3. Course Objectives

**By the end of this course, students should be able to:**

- Apply knowledge of anatomical structures to analyze and interpret clinical case studies or medical imaging
- Analyze case scenarios based on knowledge of the pathogenesis of common systematic metabolic autoimmune and neoplastic diseases.
- Analyze case studies of infectious diseases and describe the specific pathogen, mode of transmission, and immune response involved
- Perform a structured comprehensive history taking including systems review, family, past, social, and occupational history
- Summarize the clinical history of the patient highlighting the most important findings.
- Perform tests of visual acuity, visual field, color blindness and funduscopy.
- Examine the eye and ear using ophthalmoscope and auroscope.
- Adhere to patient confidentiality

## D. Course Content

No.	List of Topics
1	Basic anatomy & physiology of the eye
2	Optics and refraction
3	Cataract

4	Glaucoma
5	Retina
6	Cornea and external eye diseases
7	Lids, lacrimal system, and basic orbital diseases
8	Squint
9	Ocular emergencies and trauma

### E. Assessment tools

#	Assessment task	Percentage of Total Assessment Score
1	Quiz	5%
2	Case-Based Discussions	5%
3	Midterm Exam	30%
4	Final Written Exam	30%
5	Final OSCE	30%
	<b>Total</b>	<b>100%</b>

### F. Learning Resources

<b>Required Textbooks</b>	Lecture notes Ophthalmology, James Bruce, 12th Ed (2016), ISBN-10: 1119095905
<b>Essential Reference Material</b>	<ul style="list-style-type: none"> <li>• Basic Ophthalmology, Cynthia A. Bradford, 10th Ed (2017), ISBN-10: 1615258043.</li> <li>• Practical Ophthalmology: A manual for Beginning Residents, Fred M. Wilson, 7th Ed (2017) ISBN-10: 1681044056.</li> <li>• Vaughan &amp; Asbury's General Ophthalmology, Paul Riordan - Eva James Augsburger, 19th Ed (2017). ISBN-10: 0071843531.</li> </ul>
<b>Electronic Material</b>	1. The digital journal of ophthalmology ( <a href="http://www.djo.harvard.edu">www.djo.harvard.edu</a> ) 2. <a href="https://webeye.ophth.uiowa.edu/eyeforum/cases.htm">https://webeye.ophth.uiowa.edu/eyeforum/cases.htm</a>