

Course Specification Student Version

Course Title:	Urogenital system
Course Code:	UGS 407
Department:	Basic Medical Sciences
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: 4 (2+1+1)
2. Level/year at which this course is offered: Level 7/Year 4
3. Pre-requisites for this course (if any): HBO 203, BAN203, GAD 203, MBG 203, BPC204, PDO204, HBT 204 and PDT204
4. Co-requisites for this course (if any): NONE

B. Teaching Methods

1	Lectures
2	Practical sessions
3	PBLs

C. Course Description and Main objective

This course provides a review of renal anatomy and histology, an introduction to kidney function, and an overview of the common clinical conditions that are associated with renal system.

It also covers the functional and integrative aspects of the urinary system and explains the role the kidney plays in fluid and electrolyte homeostasis, including acid-base balance.

The goal of the reproduction part is to enable students to acquire knowledge of the physiological, pathological and clinical conditions related to the male and female reproductive system, breast disorders, and sexually transmitted infections. The module also intends to help the student become more comfortable with discussing the sexual issues that arise in everyday medical practice, including the ability to offer sexual information and education to patients in a nonjudgmental and respectful manner. Students will also be introduced to the methods of providing effective care for their patients' sexual concerns with regard to diagnosis, counseling, and treatment.

This course is also designed to give students a clear understanding of the pathophysiology of the female reproductive cycle and its associated abnormalities. In addition, the conclusion of the reproductive cycle, menopause, and the use of hormonal replacement will be covered. Emphasis on quantitative techniques, when applicable, including modern approaches to fetal surveillance and in vitro fertilization as well as prenatal diagnosis will be employed

2. Course Objectives

By the end of this course, the students will be able to:-

- Describe the normal gross and microscopic structure of the kidney and urinary passages with reference to the anatomical relations and embryological development.
- Understand the dynamics of glomerular filtration, factors affecting GFR and plasma clearance.

- Understand the renal tubular reabsorption, secretion and mechanism of urine concentration and dilution.
- Define acid-base balance and describe the regulating mechanism.
- Explain the pathogenesis of glomerular diseases, renal tubular and vascular diseases, renal tumors, and diseases & tumors of the lower urinary tract.
- Classify and understand the mechanism of action of diuretics and nephrotoxic drugs.
- Identify the clinical presentation of renal diseases, UTIs, urine outflow obstruction, and mechanism of renal failure.
- Understand the micturition reflex and related abnormalities.
- Describe the normal gross and microscopic structure of the male and female reproductive systems with reference to the anatomical relations and the embryological development.
- Identify the clinical presentation of genital infections and sexually transmitted diseases.
- Explain the pathogenesis of male and female genital diseases and neoplasms.
- Describe the pathology of breast diseases.

D. Course Content

No.	List of Topics
1	Normal structure and function of urinary system
2	Renal diseases
3	Male genital system structure and function
4	Female genital system and breast structure and function
5	Diseases of male and female genital system and breast

E. Assessment tools

#	Assessment task	Percentage of Total Assessment Score
1	PBLs evaluation	10%
2	Quiz	10%
3	Midterm Exam	20%
4	Final Written Exam	40%
5	Final OSPE	20%
	Total	

F. Learning Resources

Required Textbooks	<ul style="list-style-type: none"> • Anatomy, Snell 6th edition, 2009, Keith Moore. • Textbook of Medical Physiology. Guyton and Hall, 12th edition. Elsevier's Saunders.
---------------------------	---

	<ul style="list-style-type: none"> • Robbins and Cotran; Pathological Basis of Disease. Kumar, Abbas, Fausto and Aster, 8th edition, Saunders. • Basic & Clinical Pharmacology. B. G. Katzung, 12th edition. McGraw-Hill. • Junqueira's basic histology: Text and Atlas. 13th edition.
Essential Reference Material	-
Electronic Material	<ul style="list-style-type: none"> • http://library.med.utah.edu/WebPath/webpath.html • https://www.innerbody.com/image/urinov.html • https://www.innerbody.com/image/repmov.html • https://www.innerbody.com/image/repfov.html

