Jerash University
Faculty of pharmacy
Department of pharmaceutical science

<table>
<tr><td colspan="2" align="center">**Course Syllabus**</td></tr>
<tr><td>**Course Title: Human Physiology II**</td><td>**Course code: 1101232**</td></tr>
<tr><td>**Course Level: Second year**</td><td>**Course prerequisite (s) and/or co requisite(s): Physiology I**</td></tr>
<tr><td>**Lecture Time: Sun & Tues 3 - 4**</td><td>**Credit hours: 2**</td></tr>
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Academic Staff Specifics

Name	Rank	Office Number and Location	Office Hours	E-mail Address
Dr. Aiman Momani	Assist. Professor	School of Pharmacy 403	Sun & Tues 1 -2	Aiman.phd@gmail.com

Course module description:

The aim of this course is to achieve a good understanding of the physiology of major organ-systems in the human body. The organ-systems covered in this course include: Endocrine system, renal system, male & female reproductive systems, and neurotransmitters.

Course module objectives:

At the end of this module, students will:

1. Understand the physiology of the organ-systems covered in the course
2. Understand the relationship between the organ-systems covered in the course
3. Be equipped to understand subsequent courses that need a good understanding of the human physiology

Course/ module components:

- **Books (title , author (s), publisher, year of publication)**
  Guyton and Hall Textbook of Medical Physiology (Guyton Physiology). By
  John E. Hall PhD. 13th Edition
  Support material.
- **Study guide.**
- **Homework and laboratory guide.**

Teaching methods:

In-class lectures with illustrative slides

Learning outcomes:

- Knowledge and understanding

Basic physiology concepts concerning the organ-systems covered in class.

- Cognitive skills (thinking and analysis).

Be able to use the understanding the physiological concepts and use to grasp deviations from normal physiological state, and the application of this knowledge to understand mechanism of action of the various drugs.

- Communication skills (personal and academic).

Be able to explain the normal human physiology to patients and other healthcare providers.

- Practical and subject specific skills (Transferable Skills).

Be able to use the understanding the physiological concepts and use to grasp deviations from normal physiological state, and the application of this knowledge to understand mechanism of action of the various drugs.

Assessment instruments

- Short reports and/ or presentations, and/ or Short research projects
- Quizzes.
- Home works
- Final examination: 40 marks

Allocation of Marks	
Assessment Instruments	**Mark**
First examination	**20%**
Second examination	**20%**
Final examination: 40 marks	**40%**
Reports, research projects, Quizzes, Home works, Projects	**20%**
Total	**100%**

Documentation and academic honesty

- Documentation style (with illustrative examples)
- Protection by copyright
- Avoiding plagiarism.

Course/module academic calendar

Week	Basic and support material to be covered	Homework/reports and their due dates
(1)	Basic Concepts of Endocrine physiology	
(2)	Hypothalamus Pituitary Axis	
(3)	Thyroid & Parathyroid Glands	Quiz
(4)	Pancreas Endocrine Role	
(5)	Adrenal Glands	
(6) **First examination**		
(7)	Basic Concepts of Renal Physiology	
(8)	Physiology of Glomereolar Filtration	Homework
(9)	Physiology of Tubular Reabsorption & Excresion	Quiz
(10)	Physiology of Male Reproductive System	
(11) **Second examination**		
(12)	Basic Concepts of the Female Reproductive System	
(13)	Hormones of the Female Reproductive System	Quiz
(14)	Ovarian & Uterine Cycles	Homework
(15)	Physiology of Major Neurotransmitters	
(16) **Final Examination**	**Final Exam**	

Expected workload:

This course is a high intensity course. Students are expected to review class materials on a lecture-by-lecture basis. Pop quizzes are done to insure that the students are studying at the same pace as the class.

Attendance policy:

Students are expected to attend all class. Missing more than 10% of the classes with result in a "drop" or "fail" grade.

Module references

Books
  Guyton and Hall Textbook of Medical Physiology (Guyton Physiology). By
  John E. Hall PhD. 13th Edition