

جامعة كل العرب

Faculty : Pharmacy

Department: Clinical Nutrition and Dietetics

Academic Year: Year: 2020/2021

Semester : First semester

(Course Syllabus)

Subject Name	Credit Hours	Course No.	Prerequisite	Concurrent course
Anatomy and Physiology- II	2	908212	908122	

Coordinator Name	Lecturer/s	Room No.	E-mail	Course website	Office Hours
Dr. Maysoun Qutob	Dr. Maysoun Qutob	4218	m_alqutob@asu.edu.jo	http://bio.asu.edu.jo/bio/index.jsp	As schedule

Course Description:

This course is a continuous to the Anatomy and Physiology I course. It includes the study of pathophysiology and its impact on different aspects of clinical nutrition in health and disease.

Course objectives:

1. Recognize the pathophysiology of the different human body systems and its etiolog
2. Discuss the clinical manifestations of diseases.
3. Correlate the pathophysiological changes to the clinical manifestations of diseases
4. Correlate the rationale for nutritional treatment of different physiological conditions.

Intended Learning Outcomes:

Following the successful completion of this course, the student should be able to:

A. Knowledge and understanding:

- A1. Define the science of Pathophysiology and understand its basic concepts and principles
- A2. Describe the general physiological processes used by the body to maintain homeostasis
- A3. Identify the etiology of the disease and describe its clinical manifestations .
- A4. Describe the rationale for nutritional therapy of the disease according to the mechanism of the disease.

B. Subject specific skills:

- B1. Discuss alterations and disturbances of all body systems.
- B2. To develop student's skills of identifying, describing and using concepts of physiology and pathophysiology in any course of Nutrition they will study.
- B3. Discuss how body systems coop with abnormal conditions and relate them to nutritional intervention.



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C. Cognitive and Intellectual skills:

- C1. **Lecture notes** based on the course textbook and latest scientific references in pathophysiology .
- C2. **Problem solving based on a constructivism method of thinking:** The ability to relate different physiologic problems/ health conditions with nutritional intervention.
- C3. **Critical thinking:** The ability to analyze critique and to synthesize logic correlation in order to solve human health problems in relation to pathophysiology and nutrition.
- C4. **Promotion of intrinsic motivation** via encourage alternative methods of assessment : (group discussion, improve learning method of the course by participating or creating applicable ideas (e.g., E-learning method: animation, new data , project...).

D. Transferable Skills:

- D1. **To have constructivism method of knowledge and thinking:** Help students to transfer their skills to the community.
- D2. **Writing skills:** The ability to communicate information in different assignment forms.
- D3. **Oral communication skills :** The ability to communicate with the nutritional information.
- D4 **Promotion of intrinsic motivation:** participation and learning nutrition management skills
- D5. **Team work:** involved in group discussions related to basic knowledge of nutrition and health.
- D6. **IT skills:** The ability to accept learn and adapt to new technology and make the most of the opportunities it presents (e.g., Online Exam, online assignments, report design, online team communication via ASU online system).
- D7. **Administrative skills:** The ability to commit and respect the regulations and instructions (e.g., Attendance, Online Exam, online assignments, report design, online team communication...).

Teaching and Learning Methods:

Development of ILOs is promoted through the following teaching and learning methods:

ILOs	Learning Methods	Evaluation Methods
A1-A4	Lecture notes based on data show slides and animations.	Electronic online exam / paper work exam (Multiple-choice questions).
B1-B3	<ol style="list-style-type: none"> 1. Assignments 2. Class discussion 3. Team work and group discussion 4. Promotion of intrinsic motivation 	Provided assignment form (1-5 marks) 1 mark for each participation Scientific materials to develop the course (1-3 marks).
C1-C4 D1-D7	<ol style="list-style-type: none"> 1. Lecture notes based on data show slides and PowerPoint presentation and white board illustration. 2. Assignments 3. Class discussion 4. Team work and group discussion 5. Promotion of intrinsic motivation 	Electronic online exam /paper work exam (Multiple choice questions) Provided assignment form (1-5 marks) 1 mark for each participation Discussion committee (1-5) Scientific materials to develop the course (1-3 marks).



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Course Content:

Week	Date	Lecture number	Topic's Details	Exams/ /quizes/ holidays	Main Reference (chapter)	ILOs achieved
1	18/10	2	Introduction to the course: General terms		Handouts and Ch. 1, Ref. 2	A1, B1, C1
2	25/10	2	Fluid and electrolyte balance Acid base balance		Ch. 4, Ref. 2	A2, A3, C1
3	1/11	2	The immune system: Cellular injury Hypersensitivity (allergy)		Ch.9, Ref. 1	A2-4, B2, B3, C1-4, D1
4,5	8/11	4	The Cardiovascular System: Regulation of blood pressure Hypertension Atherosclerosis Ischemic heart disease Heart failure Atrial Fibrillation		Ch. 13, Ref. 1	A2-4, B2, B3, C1-4, D1
6,7	22/11	3	The Upper Gastrointestinal System: GERD Dysphagia Nausea and vomiting Gastritis Peptic ulcers Gastric surgery		Ch. 14, Ref. 1	A2-4, B2, B3, C1-4, D1
7,8	1/12	3	The Lower Gastrointestinal System: Indigestion Diarrhea Constipation Malabsorption Celiac disease Irritable bowel syndrome Inflammatory bowel disease Diverticulosis Short Bowel syndrome Bacterial overgrowth		Ch. 15, Ref. 1	A2-4, B2, B3, C1-4, D1
8/9			Midterm Exam			
9	13/12	2	Liver, Bladder and Pancreas		Ch. 16, Ref. 1	A2-4, B2, B3, C1-4, D1
10	20/12	2	Endocrine system: Diabetes Hypoglycemia Other endocrine diseases		Ch. 17, Ref. 1	A2-4, B2, B3, C1-4, D1
11	27/12	2	Renal system: Chronic kidney disease Acute kidney injury nephrolithiasis		Ch. 18, Ref. 1	A2-4, B2, B3, C1-4, D1



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12	3/1/2021	2	Hematological System: Nutritional anemias Hemochromatosis Non-nutritional anemia Clotting and bleeding disorders	Ch.19, Ref. 1	A2-4, B2, B3, C1-4, D1
13	10/1/2021	2	Respiratory System: Asthma COPD Cystic fibrosis	Ch. 21, Ref. 1	A2-4, B2, B3, C1-4, D1
14	17/1/2021	2	Neurological System: Epilepsy and seizure disorders Stroke Multiple sclerosis Dementia Spinal cord injuries	Ch. 20, Ref. 1	A2-4, B2, B3, C1-4, D1
15	24/1/2021	1	Selected diseases: Osteoporosis Gout	Ref. 1	A2-4, B2, B3, C1-4, D1
16			Final Exam		

Grade Distribution:

Your course grade will be determined by the following:

Assessment Method	% of Final Grade	Due Date
Midterm exam	35	To be announced
Quiz	15	To be announced
Final exam	50	To be announced

* Provisional dates are scheduled in the course schedule. Each instructor will announce the exact date for the quizzes of each section at the beginning of the semester.

Distribution of examination material (may vary depending on material included).

Course Policies:

A- Attendance policies:

Attendance: Mandatory.

First warning – with 6 absences

Last warning – with 8 absences

Failing in the subject – with 10 absences

B- Absences from exams and handing in assignments on time:

Will result in zero achievement unless health report or other significant excuse is documented.

C- Health and safety procedures: NA



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D- Honesty policy regarding cheating, plagiarism, misbehavior:

The participation, the commitment of cheating will lead to applying all following penalties together

1. Failing the subject he/she cheated at
2. Failing the other subjects taken in the same course
3. Not allowed to register for the next semester. The summer semester is not considered as a semester

E- Grading policy:

Exams and Quizzes.

Midterm Exam:	35 points
Quiz:	15 points
Final Exam:	50 points
Total:	<u>100 points</u>

F- Available university services that support achievement in the course:

Classrooms, internet classes, ASU online web site (messages, assignment, and notes)

24. Required equipment:

Classrooms, internet classes, ASU online web site (messages, assignment, and notes)

Make-up Exam Policy:

Make-up exams will be offered for valid reasons. They may be different from regular exams, both in content and format.

Textbooks information:

Main Reference:

1. Nutrition Therapy and Pathophysiology, Marcia Nelms, Kathryn P. Sucher and Karen Lacey. Fourth edition (2020). Cengage Learning.

Other References:

2. Professional Guide to Pathophysiology, Laura Willis, fourth edition (2020). Wolters Kluwer.
3. Pathophysiology of Disease, Gary D. Hammer, Stephen J. McPhee. Eighth Edition (2019). Publisher: McGraw-Hill Education.
4. Pathophysiology: The Biologic Basis for Disease in Adults and Children, Kathryn L. McCance and Sue E. Huether, eighth edition (2019). Elsevier.



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Additional information:

No side talks during lecture

No mobile phones during lecture

Entering the lecture theatre after the instructor is not permitted.

Homework should be done by students independently and will be asked at the exams

Course Material and Announcements

Students need to use the e-learning page at the ASU website in order to get all lecture handouts and guidelines which will be uploaded there.

In addition, course related announcements and exam results will be posted on the ASU online AND/OR course website and is the responsibility of each student to check the sites regularly.

Name of Course Coordinator: Dr. Maysoun Qutob

Date: 14/10/2020

Signature:

M Qutob

Head of curriculum committee: Reem Abutayeh **Signature:**

Reem Abutayeh

د. ريم ابوتايه

Head of Department:

رئيس قسم
التقنية السريرية والصيدية

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Dean: _____

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