



## Syllabus of Medical Nutrition Therapy 1 Second Semester 2021 /2022

### COURSE INFORMATION

<p><b>Course Name:</b> Medical Nutrition Therapy 1</p> <p><b>Semester:</b> Second Semester</p> <p><b>Department:</b> Department of Clinical Nutrition and Dietetics</p> <p><b>Faculty:</b> Applied Medical Sciences</p>	<p><b>Course Code:</b> 140502344</p> <p><b>Section:</b> 1</p> <p><b>Core Curriculum:</b> Obligatory department</p>
<p><b>Day(s) and Time(s):</b> Sunday: 9:00-10:00 Tuesday: 9:00-10:00 Thursday: 9:00-10:00 (On Microsoft Teams)</p> <p><b>Classroom:</b> MS 308</p>	<p><b>Credit Hours:</b> 3</p> <p><b>Prerequisites:</b> Human Nutrition and Metabolism (140502312)</p>

### COURSE DESCRIPTION

This course explores changes in nutrient metabolism related to biochemical and physiological alterations in disease conditions and the development of therapeutic diets. The course covers gastrointestinal disorders, diabetes mellitus, cardiovascular disease, hypertension, food allergies, and metabolic disorders.

### DELIVERY METHODS

The course will be delivered through a combination of active learning strategies. These will include:

- PowerPoint lectures and active classroom-based discussion
- Collaborative learning through small groups acting in an interdisciplinary context.
- Encouraging the use of social media and communication between students to enhance the learning experience.

**FACULTY INFORMATION**

<b>Name</b>	<b>Islam Al-Shami</b>
<b>Academic Title:</b>	<b>Instructor</b>
<b>Office Location:</b>	<b>Medical Sciences building- L1; office #:2164</b>
<b>Telephone Number:</b>	<b>+962 (5) 3903333 Ext. 5528</b>
<b>Email Address:</b>	<b>islamk@hu.edu.jo</b>
<b>Office Hours:</b>	<b>Sunday</b> 10:00-11:00 and 12:00-1:00 <b>Tuesday</b> 10:00-11:00 Or to be determined by appointment

**REFERENCES AND LEARNING RESOURCES****Required Textbook:**

- Nelms, M., Sucher, K , Lacey, K and Roth, S. (2020) Nutrition Therapy and Pathophysiology 4th Edition. Australia: Wadsworth, Cengage learning.

**Suggested Additional Resource:**

- Dorland's Illustrated Medical Dictionary, Latest Edition, Dorland; or any medical dictionary of your choosing
- Pagana, KD and Pagana, TJ. Mosby's Diagnostic and Laboratory Test Reference, Latest Edition. Elsevier Mosby Publishing
- Choose Your Foods: Exchange Lists for Diabetes, American Diabetes Association and Academy of Nutrition and Dietetics, Copyright 2020
- Pronsky ZM, Powers and Moore's, Food Medication Interaction, Latest edition.  
<http://www.foodmedinteractions.com/>

## STUDENT LEARNING OUTCOMES MATRIX\*

Core Curriculum Learning Outcomes	Program Learning Outcomes	Course Objectives	Course Student Learning Outcomes	Assessment Method
To provide students with the optimum educational standard in the field of clinical nutrition and general knowledge in food technology	<b>KP1:</b> Demonstrate a depth understanding of the basis of nutritional science and the nutrient composition of food and discover the links between diet and disease and health	<b>1.</b> Acquire knowledge and skills for applying evidence-based medical nutrition for disease prevention and treatment. <b>2.</b> Understand the pathophysiology related to discussed medical conditions and determine appropriate evidence based medical nutrition therapy <b>3.</b> Complete a nutrition assessment and interpret nutrition assessment data to develop a nutrition prescription with goals and objectives including dietary and nutrient modifications to promote positive outcomes.	K1- Describes the traditional mode(s) of treatment (medical treatment) for each disease or disorder and the relationship of treatment modalities to nutritional status/support. K2- Use the nutrition care process (NCP) to make decisions, to identify nutrition-related problems and determine and evaluate nutrition interventions, including medical nutrition therapy, disease prevention and health promotion. K3- State the Academy Nutrition Care Process in diagnosing and evaluating outcomes. K4- Outlines composition and therapeutic adaptation of routine hospital diets.	Exams "On-line" reading
To provide optimal educational and training opportunities for students during their professional preparation for careers in nutrition.	<b>KP2:</b> demonstrate an understanding of food chemistry, technology, preparation, safety and correlates nutrition with food technology and future challenges.			
To participate in community services for health promotion and disease prevention programs	<b>KP3:</b> Explain the principles of cellular metabolic processes, the structure and function of the various physiological systems, and the principles of biochemistry			
To encourage creativity and innovation in solving problems of emerging cases in the field of clinical nutrition	<b>KP4:</b> Providing students with high levels of educational quality based on training on specific pathological conditions in therapeutic nutrition. <b>SP1:</b> Evaluate critically scientific research from a variety of sources in relation to nutrition and health through working with others, communication, self-management, and problem-solving and reflect on the various components			
To sustain the concept of collaboration to promote an appropriate diet solution in cases of health and disease	<b>SP2:</b> Communicate effectively with groups and individuals to promote the benefits of a balanced diet throughout the lifespan and demonstrate the ability to use scientific laboratory skills.		S1- Summarizes the basic physiological function of the respective organ system. S2- Perform nutrition diagnosis and intervention practically using NCP by practicing case studies S3- Explain current research trends associated with each disease or disorder which may ultimately affect nutritional status/support S4- Summarizes the clinical/nutritional implications of: anthropometric, biochemical data, medical tests & procedures, client history, nutrition focused physical exam and food history	Practice Written practical exam
	<b>SP3:</b> Assess diet, food and nutrient intake, and the consumption of food constituents in individuals and groups			
	<b>CP1:</b> Demonstrate consistent professional behavior in accordance with the legal and ethical boundaries of the dietetic profession			
	<b>CP2:</b> Critically apply knowledge of diet and health to evaluate and communicate and comment on dietary or health information both from scientific sources.		C1- Show proper professional behaviour and work ethics C2- Demonstrate effective leadership skills and team work in the class room as well as in the lab	Practice Group discussion
	<b>CP3:</b> Utilize the methods of data analysis using computer software and apply these methods to analyze data obtained from a wide variety of sources and situations, and apply critical thinking, testing hypotheses, formulating suggestions in diet and health			

## ACADEMIC SUPPORT

It is The Hashemite University policy to provide educational opportunities that ensure fair, appropriate and reasonable accommodation to students who have disabilities that may affect their ability to participate in course activities or meet course requirements. Students with disabilities are encouraged to contact their instructor to ensure that their individual needs are met. The University through its Special Need section will exert all efforts to accommodate for individual's needs.

### **Special Needs Section:**

**Tel:**

**Location:**

**Email:**

## COURSE REGULATIONS

### ***Policy:***

- Students are encouraged to prepare for class, using the scheduled outline: your understanding in class will be greatly enhanced if you are familiar with the information ahead of time.
- Students missing any class time are responsible for obtaining all information, including assignments and schedule changes.
- Students misses more than 15% of total lectures will be deprived from the final exam.
- All students should have the same opportunity to learn. There will be times throughout this course you will be encouraged to share personal experiences and opinions and likewise to listen to other students' comments. Friendly, courteous, respectful behavior and positive attitude will be expected from all students each day. There will be NO tolerance for any disrespect towards other students, the subject, or the instructor, otherwise, the misbehaved student will be asked to leave the classroom.
- Participation and discussion are encouraged for earning additional points (extra credits).

### ***Plagiarism***

Plagiarism is considered a serious academic offence and can result in your work losing marks or being failed. HU expects its students to adopt and abide by the highest standards of conduct in their interaction with their professors, peers, and the wider University community. As such, a student is expected not to engage in behaviours that compromise his/her own integrity as well as that of the Hashemite University.

Plagiarism includes the following examples and it applies to all student assignments or submitted work:

- **Use of the work, ideas, images or words of someone else without his/her permission or reference to them.**
- **Use of someone else's wording, name, phrase, sentence, paragraph or essay without using quotation marks.**
- **Misrepresentation of the sources that were used.**

**The instructor has the right to fail the coursework or deduct marks where plagiarism is detected**

### **Student Complaints Policy**

Students at The Hashemite University have the right to pursue complaints related to faculty, staff, and other students. The nature of the complaints may be either academic or non-academic. For more information about the policy and processes related to this policy, you may refer to the students' handbook.

## **COURSE ASSESSMENT**

### **Course Calendar and Assessment**

Students will be graded through the following means of assessment and their final grade will be calculated from the forms of assessment as listed below with their grade weighting taken into account. The criteria for grading are listed at the end of the syllabus

<b>Assessment</b>	<b>Grade Weighting</b>	<b>Deadline Assessment</b>
First Exam	30 %	10/4/2022 Time & place: To be determined
Second Exam	30 %	10/5/2022 Time & place: To be determined
Final Exam	40 %	Date, Time & place: To be determined later by the University

### **Description of Exams**

Test questions will predominately come from material presented in the lectures. Semester exams will be conducted during the regularly scheduled lecture period. Exam will consist of a combination of multiple choice, short answer, match, true and false and/or descriptive questions.

No make-up exams will be given. Only documented absences will be considered as per HU guidelines.

Grades are not negotiable and are awarded according to the following criteria\*:

<b>Letter Grade</b>	<b>Description</b>	<b>Grade Points</b>
A+	Excellent	4.00
A		3.75
A-		3.50
B+	Very Good	3.25
B		3.00
B-		2.75
C+	Good	2.50
C		2.25
C-		2.00
D+	Pass	1.75
D	Pass	1.50
F	Fail	0.00
I	Incomplete	-

**WEEKLY LECTURE SCHEDULE AND CONTENT DISTRIBUTION**

*“Lecture hours and weeks are approximate and may change as needed”*

Note: For Medical nutritional therapy 1 sections with 3 lecture periods per week (Sun., Tues. & Thurs.), one lecture period covers 1 lecture hours in blended format 2 lectures in the university and 1 on Microsoft teams. The chapters of the textbook that considered as part of course content will be included in exams.

<b>Course Content</b>		
<b>Week</b>	<b>Topics</b>	<b>Chapter in Text/handouts</b>
1-2	<b>Orientation and Introduction</b> Nutrition Care Process	Chapter 2
2 - 4	<b>Nutrition therapy for Diseases and Disorders of Energy Balance</b>	Chapter 12
5 - 7	<b>Nutrition therapy for Diabetes</b>	Chapter 17
<b>First Exam</b>		
7 - 8	<b>Nutrition therapy for Cardiovascular system diseases</b> Coronary heart disease Atherosclerosis Hypertension Peripheral vascular disease Heart failure	Chapter 13
9-10	<b>Nutrition therapy for Liver, gallbladder and pancreas diseases</b> Diseases of the liver Diseases of the gallbladder Diseases of the pancreas	Chapter 16
<b>Second Exam</b>		
10- 12	<b>Nutrition therapy for Renal diseases</b> Glomerular diseases Diseases of the tubules and interstitium Progressive renal disease Nephrolithiasis (kidney stones)	Chapter 18
12 - 13	<b>Nutrition therapy for Upper gastrointestinal tract diseases</b> Diseases of the Oral Cavity Diseases of the esophagus Diseases of the stomach	Chapter 14
14 -15	<b>Nutrition therapy for Lower gastrointestinal tract diseases</b> Diseases of the small intestine Diseases of the large intestine	Chapter 15

## Assessment Rubrics

Classroom Participation: Assessment Criteria					
Criteria	Quality				Score
	Excellent (4 points)	Good (3 points)	Satisfactory (2 points)	Needs Improvement (1 points)	
<b>Degree to which student integrates course readings into classroom participation</b>	often cites from readings; uses readings to support points; often articulates "fit" of readings with topic at hand.	-occasionally cites from readings; - sometimes uses readings to support points; -occasionally articulates "fit" of readings with topic at hand .	-rarely able to cite from readings; - rarely uses readings to support points; - rarely articulates "fit" of readings with topic at hand	-unable to cite from readings; -cannot use readings to support points; cannot articulates "fit" of readings with topic at hand .	
<b>Interaction/ participation in classroom discussions</b>	-always a willing participant, responds frequently to questions; - routinely volunteers point of view .	- often a willing participant, - responds occasionally to questions; - occasionally volunteers point of view .	-rarely a willing participant, - rarely able to respond to questions; - rarely volunteers point of view .	- never a willing participant., - never able to respond to questions; - never volunteers point of view .	
<b>Interaction/participation in classroom learning activities</b>	-always a willing participant; -acts appropriately during all role plays; - responds frequently to questions; - routinely volunteers point of view.	-often a willing participant; -acts appropriately during role plays; - responds occasionally to questions; -occasionally volunteers point of view.	-rarely a willing participant. -occasionally acts inappropriately during role plays; - rarely able to respond to direct questions; -rarely volunteers point of view .	-never a willing participant - often acts inappropriately during role plays,; - never able to respond to direct questions; - never volunteers point of view.	
<b>Demonstration of professional attitude and demeanor</b>	-always demonstrates commitment through thorough preparation; - always arrives on time; - often solicits instructors' perspective outside class.	rarely unprepared; rarely arrives late; - occasionally solicits instructors' perspective outside class .	-often unprepared; occasionally arrives late; - rarely solicits instructors' perspective outside class .	-rarely prepared; - often arrives late; -never solicits instructors' perspective outside class	